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THE MUSIC OF INDIA

A:77

BY

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National Council of Young Men's Christian Associations of India, Burma and Ceylon



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Picture of Kedāra rāga From Johnson Collection, India Office, London

INTRODUCTORY NOTE

THIS book has been written at the request of the Editors of The Heritage of India Series; and although it has grown beyond the possible limits of that Sories and is now published by itself, it still remains, as it was originally planned, a brief introduction to a large and intricate subject. We believe that Indian Music possesses so much value for the life of the people of India that, in this great day of national aspiration and progress, it ought to be known and understood by every man and woman who has India's good at heart, so that it may become cultivated in overy city and village throughout the land. The purpose of this book, then, is to provide sufficient information to make insight possible; so that the educated Indian, and also the European, may be stirred to such a living interest in Indian music, both vocal and instrumental, as to start musical societies and schools, and to seek for the wider and more detailed information which this book does oct attempt to give.

V. S. DORNARAL.

J. N. FARQUHAR.

TO L. H. P.

T. H. P.

AUTHOR'S PREFACE

No one feels more than the author the deficiencies of this book and the inadequacy of its presentation of a great and living culture. My only real qualification is my love for India, and a keen interest in both the practice and theory of Indian music. This little work is sent nut into the world in the hope that it may help to make known the great value of Indian music and that it may play some part, however small, in the improvement and spread of this culture throughout India.

My deepest obligations are tn Mr. A. H. Fnx Strangways, whose Music of Hindostan is the best of the few bnoks which seek to give something like an adequate account of the subject. India can nover be ton grateful to this musical schnlar for the limitless labour, love and imagination he has lavished on Indian music. I have drawn very freely from his bonk, not only accepting many of his ideas as to the development of music both within and without India, but also borrowing n few nf bis brief definitions and some expository passages of greater length. I owe him a further debt for the large amount of personal help ho has given me. He read my manuscript frnm beginning to end more than nace, explained a number of musical difficulties, and, above all, provided the material for the account of the Indian scale, and allowed me to consult him freely while I worked up the material into Chapter III.

I also wish to ecknowledge with deep gratitude the large help I have received from a number of friends in Iodia. The following have done so much for me that it is a pleasure to meotion their services. Mr. N. V. Bhatkhande, M.A., LL.D., author of n number of musical treatises in Marathi and Hindi, read the draft of the manuscript and suggested many corrections. M. R. Rv. C. R. Śrīniyāsa Aiyeogar, B.A., L.T., of the Sanskrit College, Mylnpore, gave much assistance with regard to the Samao chant and aocieot books oo Indian music; Sāhabzada Syed Sādat Ali Khan Bahador, Home Secretary of Rampor State, who is an accomplished musician, gave many hours of valuable time to satisfy my desire for a better practical koowledge of the music of the north; the Rev. L. I. Stephen of Erode taught me much of what I know, both of theory and practice, in south Iodian music; while Takhur M. Nawah Ali Khan of Lucknow rendered valuable help. Theoks are also due to the editors of the Heritage of India series for their kind assistance, and especially to Dr. J. N. Farquhar, who has read through all the proofs with the greatest care and made many suggestions of great valoe.

To every other one who, whether in cooversation or by letter, has given me information or led me to clearer insight I would express my sincere gratitude and thanks.

I wish also to make acknowledgment to the editors of 'Outward Bound' for their permission to make use of the raga pictures; to the authorities of the Indian Museum, Calcutta, for allowing me the use of valuable negativos for some of the pictures of musical instruments; to the India Office, London, for permission to phetegraph and reproduce the raga pictures; and to the proprietors of the Times of India for kindly letting me have the use of a number of half-tone blocks of pictures of outsical instruments.

I also desire to express my thanks to M. Fredalis of Baroda for kind permission to use the half tone block of the Sarangi player, facing p. 108.

May my small book lead many to seek further light on this most interesting part of the wonderful Heritage of India.

l would earnestly ask that readers will not fail to notify me of matters which are open to criticism, or which should be corrected in a subsequent edition.

H. A. POPLEY.

Y.M.C.A., Madras. April, 1921.

SCHEME OF TRANSLITERATION

Gutturals	k	kh	g	gh	ń	
Paiatals	ch	chh	j	jh	ã	ś
Linguals	ŧ	th	Ą	dh	û	ah
Dentals	ι	th	a	đh	a	
Lablais	р	ph	b	hh	m	
Anusvara	y m	r	1	V	h	
Visarga	þ					



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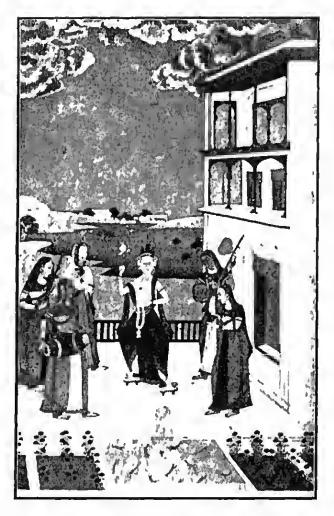
I know not how thou singest, my master! I ever listen in silent omazement.

The light of thy music illamines the world. The life breath of thy music runs from sky to sky. The holy stream of thy music breaks through all stony obstacles and rushes on.

My heart longs to join in thy song, but valuely struggles for a voice. I would spenk, but speech breaks not into song, and I cry out baffled. Ah, thou hast mode my heart captive in the endless meshes of thy music, my master i

TAGORE, GITĀNJALI.





Picture of Megh raga

From Johnson Collection, India Office, London

CHAPTER I

INTRODUCTION

North and South Iodia differ largely in a multitude of thiugs. The corth is the land of the fighting races and has the large towns and cities of India with their keee intellectual and commercial life. The south is the land of peaceful villages, nestling among greeo fields and gardens, inhabited by a conservative and peace-loving people who are contented with a little. The south was far away from the battlefields of Empire until the time of the British; and so has passed through a more peaceful evolution and has clung more closely to the old ways. When the Muhammadan invasions overwhelmed the cities of the North, the sages and seers fied to the forests of the South, where they were safe from harm and were welcomed by the cultured Dravidians.

These differences are reflected in the music of the North and of the South, though we must not commit the mistake of thinking of these as distinct types of music. There is one Indian music, though there are many ways of working it out; and these all group themselves under the Northern and Southern schools. Distinguished as the Northern or Hindustani school and the Southern or Carnatic school, both are yet based on the principles stated in the

ancient Sanskrit treatises oo music.

The studeot of India will find in the same way one India which speaks again and again as he travels from North to South. The atmosphere of mystical devotion and of submission to what is looked upon as the divice will is found in all religious hearts; the one treasure-store of

legend and story supplies both North and South with heroes and sages; and agriculture and trade, the 'village and the home, and all the arts, are filled with the same spirit and use practically the same methods throughout India.

It will he seen as we study this subject that, in the same way, there is an underlying unity in the music of India, revealing itself in qualities which mark it off from the music of the West and which exhibit its common heart.

The two schools tend to-day to coalesce ioto one unified system, a tendency which is fostered by the all-India music conferences which now meet annually, and also by the very considerable borrowing which is taking place in

each system from the other.

It may be well to give at the outset brief deficitions of a few fundamental terms which must be used io our exposition from the very beginning. Fuller explanations of these will be found in the body of the work and a Glossary of all the musical words and phrases which occur in the book will be found among the Appendices.

SVARA			One of the seven notes of the gamut.
SRUTI			An interval smaller than the semi-tone.
PADOHY	Syara	•••	The fundamental variety of each of the seven notes.
VIERIT		***	A variety of the Suddha note,
RXGA	•••	***	The melody-types which ere the bases of Indian musical compositions.
TALA			Time measure.
GRÄMA			An ancient mode or scale.
Jāti	***	•••	The old name for melody-types.

The wide differences between Iodian and western music on the ooe hand, and the variaot termioology which distinguishes northern from southern musical teaching in India on the other, create so many mioor difficulties even in simple matters, that it has been thought well to use in this book a modified notation, based on the Indian tonic sol-fe, so that all musical items may be exhibited in one way and the reader moy not have to carry several schemes in his head. Its relations and detailed use are set forth in the following tables:—

I. TABLE OF NOTE SIGNATURES AND NOMENCLATURE

1		2	3	4
The Svara Nomenclature.		Semi-tones of the Western scale,	Notation used in this book.	The Southern names.
Shadja Tara Suddha Ni		C B	S	Shadja Tāra. Kākali Ni.
Komal ¹ Ni	•••	Hb	23	Kaisiki Ni. Shatsroti Dha
Suddha Dha		Λ	Ъ	Chatubsruti Dha. Suddha Ni.
Komal Dba		Ab	4	Suddha Dha.
Pañchama		G	P	Panchama.
Tivra ⁹ Ma		F	100	Prati Ma.
Suddha Ma	***		M	Suddha Ma.
Suddha Ga		E	G	Antara Ga.
Komal Ga	• • •	Eb	g	{ Sādhāraņa Ga. { Shajšruti Ri.
Śaddha Ri	•••	D	R	Chatuhśruti Ri.
Komal Ri		Db	r	Suddha Ri.
Shadja		С	S	Shadja.

My southern friends will notice that the northern system of nomenclature has been adapted. It is true that the southern names of the notes, as well as the northern, go back to ancient musical facts, but they have very little meaning to the ordinary musician to-day and are not clear enough to justify their coming into general use throughout India. The northern system, however, is based on a clear principle and will present on difficulty to the southern student.

The Suddha notes of the northern system are those of the tonal scale, Bilaval, the European Major scale. With the exception of Ma, all the other notes are flats to the Suddha note. This is quite different from the southern system, where the Suddha note is the lowest and the others are all sharps. Clearly confusion would be the only result of an attempt to retain both systems, while from all points

^{1 &#}x27;flat '.

[&]quot; sharp '.

of view the northern method is preferable. As most of the writer's time has been speet in the south, and his first love for the genial south is always his best love, it is not likely that he has been hissed in coming to this decision.

In our second table the smaller intervals of the Indian octave are exhibited. Here a difficulty appears in the southern system, namely, the mergiog of the notes as shown in the bracketed pairs of the table. We have decided to ask our southern friends to read Shatsruti Ri in those cases where it should occur, even though the symbol g is used and so on for all merged notes.

Tivra means 'sharp' and is shown by capital with superscript plus, in the case of Ni and Ga. In the case of Ni and Ga it is a sharp of one stuti only. In Ma it is a

somitooal sharp, and is shown by a small letter.

Tivratara is a double sharp, a microtone higher than Tivra, and is indicated by small lotter with plus sign.

Komal is a semitonal flat and is indicated by a small

letter.

Atikomal is a microtocal double flat, one sruti lower than Komal. It is indicated by a superscript minus sign on the small letter.

The three voice registers are indicated as follows:— T......Tāra or higher register, shown thus S.

O......Madhya or middle register, shown thus S. M......Mandra or lower registor, shown thus S.

The letters T.O.M. are placed at the heginning of the

clef to show the register osed.

In the staff notatioo, when it is desired to show a microtonal sharpening or flattening, the sharp or flat sign is placed over the note, as may be seen in the table of srutis below. It should be noted that there are other systems of nomenclature current in Iodia besides the two mentioned. For instance, one current in Poona calls the Suddha ootes of our system Tivra and the Tivra ootes Tivratara. It is not suggested that the notation here adopted is free from difficulties, but after very careful thought it is the hest that we have been able to devise for the purpose of this book. Whether it will be found worthy of wider use it is for others to decide.

II. TABLE OF SRUTIS

	Śruti Name		Western Note	Sign	Camatic Name
22.	shadja tära	•••	C	S	Shadja Tāra.
21.	Tivra Ni	•••	# 13	NT	
20.	ŚUDDHA NI	•••	B	N	Kākali Ni.
19.	Komal Ni	•••	Bb	n	Kaišiki Ni. Shajiruti Dha.
18.	Atikomal Ni		Bb	a-	
17.	ŚUDDHA DHA	•••	A	D	Chatuhśruti Dha. Suddha Ni.
16.	Triśruti Dha		b A	D-	
15.	Komal Dha	•••	Λb	d	Suddha Dha.
10.	Atomai Dita	• ••	Ъ		Suddilly Dia.
14.	Atikomal Dha	•••	Ab	đ	
13.	PAÑCHAMA	•••	G	P	Pa.
12.	Tivratara Ma		F	m+	
11.	Tivra Ma	•••	F	m	Prati Ma.
			\$		
10.	Ekasruti Ma	•••	_	M+	
9.	ŚUDD HA MA	•••		34	Suddha Ma,
8.	Tivra Ga	•••	E	6+	
7.	SUDDHA GA	•••	E	G	Antara Ga.
6.	Komal Ga	•••		g	Sādhāraņa Ga. Shajāruti Ri.
5.	Atikomal Ga		b Eb	g	
4.	ŚUDDHARI	•••	-	R	Chatohárnti Ri. Suddha Ga.
3.	Madhya Ri		b D	R-	
2,			706	r	Suddha Ri.
.,		,a	b	_	
1.				r"	
0.	SHADJA	••	. C	S	Shadja madhya.

For time-measure the following notation is adopted, being similar to the European tonic sol-fa system. The complete bar is indicated by long upright lines, the division within the bar by short upright lines, and the smaller divisions within these by double and single dots. The dash indicates a continuation of the previous note. Thus.

The time signature will be shown at the beginning or each piece. The beat is called Anga or Tala; the bar Vibhaga and a section of so many vibhagas an Avarta. The Avarta will be shown by two long upright lines together.



LEGEND AND HISTORY

The beginnings of Indian music are lest in the beautiful and fanciful legends of gods and goddesses whe were supposed to bo its authors and patrons. The goddess Sarasvati is always represented as the goddess of art and learning, and she is usually pictured as seated on a white lotus with a vīuā, lute, in one hand, playing it with another, a boek in the third hand and a necklace of pearls in the feurth.

The technical word for music throughout India is the word sangita, which originally included dancing and the drama as well as vocal and instrumental music. The god Siva is supposed to have been the creator of this three-feld art and his mystic dance symbolizes the rbythmic

motion of the universe.

In Hindu mythology the various departments of life and learning are usually associated with different *rishis* and so to one of these is traced the first instruction that men recoived in the art of music. Bharata *rishi* is said to have taught the art to the heavenly dancers—the Apsarases—who niterwards performed befere Sivn. The *rishi* Nārada, who wanders about in earth and heaven, singing and playing on his vinā, taught music to men. Among the inhabitants of Indra's heaven we find bands of musicians. The Gandharvas are the singers, the Apsarases the dancers, and the Kinnaras centaur-like performers on musical instruments. From the name Gandharva has come the title Gāndharva Veda for the art of music.

Among the early legends of India there are many concerning music. The following is an interesting one from them Adhhuta Rāmāyana about Nārada rishi, which combines criticism with appreciation.

Once upon a time the great rishi Narada thooght within himself that he had mastered the whole art and scleoce of music. To curb his pride the all-knowing Vishnu took him to visit the abode of the gods. They entered a spacious building, in which were numerous men and women weeping over their broken limbs. Vishnu stopped und enquired of them the reason for their lumentation. They answered that they were the riggs and the riggists, created by Mahadeva; hot that as a rishi of the name of Narada, ignorant of the true knowledge of music and unskilled in performance, had sung them recklessly, their features were distorted and their limbs broken; and that, unless Mahadeva or some other skillul person would sing them properly, there was no hope of their ever being restored to their former state of body. Narada, ashumed, kneeled down before Vishon and asked to be forgiven.

The Vedic Index shows a very wide variety of musical Instrumenta in use in Vedic times. Instruments of percussion are represented by the dundubhi, an ordinary drum; the adambara, another kind of drum; bhamidundubhi, an earthdrum made by digging a hole in the ground and covering it with hide; vanaspati, a wooden drum; aghāți, a cymbal used to accompany dancing. Stringed instruments are represented by the handa-vina, a kind of luto; karkari, another lute; vana, a lute of 100 strings; and the vina, the present instrument of that name in India. This one instrument alone is sufficient evidence of the development to which the art had attained oven in those early days. There are also a number of wind instruments of the flute variety, such as the tunava, a wooden flute; the nadi, a reed flute; bakura, whose exact shape By the time of the Yajur Veda several is unknown. kinds of professional musicians appear to have arisen: for lute-players, drummers, flute-players and conch-blowers are mentioned in the list of callings.'

That vocal music had already got beyond the primitive stage may he concluded from the somewhat complicated method of chanting the Sāma Vedn, which probably goes back to the Indo-Iranian age. These hymns of the Rik and Sāma Vedas are the earliest examples we have of words set to music, unless we except the Zendavesta, which may have been chanted. The Sāma Veda was sung

according to very strict rules, and present day Sāmagaḥs—temple singers of the Sāman—claim that the oral tradition which they have received goes back to those ancient times. A discussion upon the musical character of the Sāman chant will be found in the next chapter. The Chhāndogya and the Brihadāranyaka Upanishads (c. 600 B.C.) both mention the singing of the Sāma Veda and the latter also refers to a number of musical instruments.

One of the earliest references to music is found in the grammarian Pāṇini, who was prohably alive when Alexander the Great was in Taxila (326 B.C.) In his comments upon the root Nrit—to dance—he mentions two persons named Śilālin and Krisāsvin as the authors of

two sets of stitras on dancing.

A reference to a musical performance, which if it could' be accepted as historical would go back further still is found in the *Pali Piţaka* (c. 300 B.C.) in which it is said that two disciples of Gautama Buddha (c. 480 B.C.) attended a dramntic performance, which of course would be pusical.

The earliest reference to musical theory seems to be in the Rikpratisakliya (c. 400 B.C.) which mentions the three voice registers and the seven notes of the gamut. It is interesting to find that just before this time, Pythagoras in Greece (510 B.C.) worked out the musical system of the Greeks.

In the Rāmāyaṇa (400 B.C.—A.D. 200) mention is frequently made of the singing of ballads, which argues very considerable development of the art of music. The poem composed by the sage Vālmīki is said to have been sung before King Daśaratha by Rāma and Lakshmaṇa. The author of the Rāmāyaṇa often makes use of musical similes. The humming of the bees reminded him of the music of stringed instruments, and the thunder of the clouds of the beating of the mridaiga. He talks of the music of the battlefield, in which the twanging and creaking of the bows takes the place of stringed instruments and vocal music is supplied by the low moaning of the elephants. Rāvaṇa is made to say that 'he will play upon the lute of his terrific bow with the sticks of his

arrows.' Lakshmana, entering the inner apartments of Sugrīva's harem, hears the ravishing strains of the music of the vīnā and other stringed instruments accompanied by the faultless singing of accomplished vocalists. Rāvaņa was a great master of music and was said to have even appeared Siva by his sublime chanting of Vedic hymns.

The Rāmāyaṇa also mentions the jūtis, which seem to have done duty for the rāgas in ancient times. They seem to have heen seven in number and may perhaps have begun on each of the seven notes of the gnmut. Among the musical instruments mentioned the following are the most important: bherī, dundubhi, mṛidanga, paṭaha, ghaṭa, paṇava, and dindima among the drums; mudduka (brass trumpet) and ādambara (clarionet) among wind instruments; a vīṇā played either with the bow or with a plectrum, the vīṇā being the name for all stringed instruments.

The Mahābhārata (500 B.C.—A.D. 200) speaks of the seven Svaras and also of the Gäudhārn Grāma, the ancient third mode which is discussed in the next chapter. The

theory of consonance is also alluded to.

The Mahājanaha Jātaka (c. 200 B.C.) mentions the four great sounds (parama mahā sabda) which were conferred as an honour by the Hindu kings on great personages. In these the drum is associated with various kinds of horn, gong and cymhals. These were sounded in front of a chariot which was occupied, but behind one which was empty. The car used to go slowly round the palace and up what was called 'the kettle-drum road.' At such a time they sounded hundreds of instruments so that 'it was like the noise of the sea.' The Jātaka also records how Brahmadatta presented a mountain hermit with a drum, telling him that if he beat on one side his enemies would run away and if upon the other they would become his firm friends.

In the Tamil books Puranānāru and Pattupātţu (c. A.D. 100-200) the drum is referred to as occupying a position of very great honour. It had a special seat called

¹ See Music in Ancient India, by C. Tirumalaiya Naidu,

murasukattil, and a special elephant, and was treated almost as a deity. It is described as 'adorned with a garland like the rainbow.' One of the poets tells us, marvelling at the mercy of the king, 'how he sat unwittingly upon the drum couch and yet was not punished'. Three kinds of drum are mentioned in these books: the battle drum, the judgment drum, and the sacrificial drum. The battle drum was regarded with the same veneration that regiments used to bestow upon the regimental flag in the armies of Europe and the capture of the drum meant the defeat of the army. One poem likens the beating of the drum to the sound of a mountain torrent. Another thus celebrates the virtues of the drummer:

For my grandsite's grandsite, his grandsite's grandsite Beat the drum. For my father, his father did the same. So he for me. From duties of his clan he has not swerved. Pour forth for him one other cup of palm tree's purest wine.

The early Tamil literature makes much mention of music. The Paripādal (c. A.D. 100-200) gives the names of some of the syaras and mentions the fact of there being seven Pālai (ancient Draviding modes). The val (wai) is the peculiar instrument of the ancient Tamil land. specimen of it exists to-day. It was evidently something like the vina but not the same instrument, as the poet Mānikkayāchakar (c. A.D. 500-700) mentions both in such a way as to indicate two different instruments. Some of its varieties are said to have had over 1,000 strings. Silabbadigaram (A.D. 300), a Buddhist drama, mentions the drummer, the flute player, and the viva as well as the val, and also has specimens of early Tamil songs. This book contains some of the earliest expositions of the Indian musical scale, giving the seven notes of the gamut and also a number of the modes and ragas in use at that time. The names given to the notes are not those current in the present day and are with one exception pure Tamil words Tivakaram, a Jain lexicon of the same period, gives quite n lot of information about early Dravidian music. It montions two kinds of ragas; complete or hentatonic, and

I From Pura-porul Venta indiai, Pope's translation.

transilieot or hexatonic and pentatonic, which were called respectively Pan and Tiram; it gives the twenty-two srutis, which it calls matra; the Tamil names of the seven svaras with the equivalent Sanskrit sol-fa ioitials, (Sa Ri Ga etc.); the seven Dravidian modes called Palai; four kinds of Yāļ and the names of 29 Pans, some of which are still found among the primary rāgas of southern India. All this as well as frequent references to the science of music and to musical performances, both vocal and instrumental, in the Tamil books of this and succeeding periods makes it clear that musical culture had reached a high level among the Dravidian peoples of South India in the early centuries of our era.

The later centuries of the Buddhist period (A.D. 300-500) were more fertile in architecture, sculpture and painting than in music. The dramas of Kālidāsa (c. A.D. 400) make frequent references to music and evidently the rajahs of that time had regular musicians attached to their courts. In the Mālavikāgnimitra a song in four-time is mentioned as a great feat performed at a contest between two musicians. The development of the drama after Kālidāsa meant the development of music as well, as all Iodian drama is operatic. The temple and the stage were

the great schools of Indian music.'

This was the time when io Europe Pope Sylvester (A.D. 330) and St. Ambrose (A.D. 374-397) began to elaborate

musical theory.

The oldest detailed exposition of Indiau musical theory which has survived the ravages of ants and the fury of men is found in a treatise called Nātya Sāstra or the science of dancing, said to have heen composed by the sage Bharata. The date of this book is usually accepted as the early part of the sixth century. It is stated elsewhere that previous to this Bharata had composed the Nātya Sātra or Aphorisms on Dancing, but these have not survived. There is only one chapter of the Nātya Sāstra (ch. 25) which deals with music proper. This contains a detailed exposition of the svaras, śrutis, grāmas, mārchhanās, jātis. While the priociples of his theory are still active in Indian music, the details of his system helong

to the past and are not easily intelligible to the present generation. A translation of a portion of this chapter appeared in Mr. Clement's Introduction to Indian Music, and there is a complete French translation by Jean Grosset. The lotter however is not quite an accurate guide, as it has taken the word svara—used by Bharata for the interval and only secondarily for the note obove the interval—to rofer to the note helow the interval. This involves the correction of oll his tronslotion of ootenames.

Ao inscription found at Kudumiyamäloi in the Pudukottai State of the Modras Presidency, which seems to belong to the seventh century, has mony references to music. It meotioos seven jātis and a few of the śrutis as well as the seven svaras. The words 'antara' and 'kākali' nro found doscribiog respectively the sharp śrutis of Ga and Ni, which is one of the peculiarities of the Southern comeoclature to-day. It is suggested that the inscription is really a piece for the Sāmagah to sing and that the peculiar marks on mony of the note signs may be intended to indicate points of Sāmao singing.

The seventh and eighth centuries of our era in South India witnessed a religious revival associated with the bhakti movement and coonected with the theistic and popular sects of Vishnu and Siva. This revival was spread far and wide hy meaos of songs composed by the leaders of the movement and so resulted in a great development of musical activity among the people generally and io the spreed of musical education. The old melodles to which these songs were sung ore now lost, though Travancore claims to have preserved some of them in the ancient Travancore ragas such os Indisa, Indalam, Padi, Puranira. The beautiful strip of laod on the south-west coast of India between the Western Ghauts and the sec. of which Travancore is now a part, was famed in the centurios before Christ for its commercial activities and its tropical products. This was then the homeland of the Chera kiogdom which for a considerable period exercised sovereignty over the whole of South Iodia. It was also the

¹ See Epigrophia Indica, vol. xxi, pp. 226-37.

home of an accient Tamil culture which rivalled the Sanskrit culture of the sacred cities of North India. It is, therefore, no wonder that we should find here a flourishing school of music whose traditions have persisted until this day. It is interesting to note that it was about this time that Gregory the Great was developing music in

Europe for religious purposes.

The Nārada Sikshā, wroogly connected with the name of the great rishi, was probably composed between the tenth and twelfth century. It shows considerable development upon the Nātya Sāstra in its rāga system and in a number of matters agrees with the Kudumiyamālai inscription where that disagrees with the next important treatise, the Sāngīta-Ratnākara. Somo scholars think that the Nārada Šikshā comes much later than the

twelfth century.

The first north Indian musician whom we can definitely locate both in time and place is Javadeva, who lived at the end of the twelfth century. He was born at Kendulä near Bolpur, where lives to-day the poet laureate of Beogal and modern India. Kendulä still celcbrates an annual fair at which the hest musical pieces are regularly performed. Joyadcva wrote ood sung the Gita Govinda, a series of soogs descriptive of the amours of Krishna, and so belongs to the number of India's lyrical songsters connected with the bhakti revival. Though each song has the name of the raga and tala to which it was suog these are not intelligible to-day to Indian musicians. At that time these songs were known as Prablundhas. The Gita Govinda is a charming lyrical composition, as may be realized to some degree in ao English translation of it by Sir Edwin Arnold uoder the name of The Indian Song of Songs. In these songs Rādhā pours forth her yearning, her sorrow and her joy and Krishna assures her of his love.

We come now to the greatest of ancient Indian musical authorities and one who still inspires reverence io the minds of India's musicians. He was called Sārngadeva and lived to the former half of the thirteenth cectury (A.D. 1210-1247), at the court of the Yādava dynasty of Devagiri in the Deccan. At that time the Marāthā empire extended to the

river Kaveri in the south, and it is probable that Sarigadeva had come into contact with the music of the south as well as with that of the north. His work, the Sainsta-Ratnakara shows mnny signs of this contact. possible that he is endeavouring to give the common theory which underlies both systems. The result is that a great deal of controversy has prisen as to the exact system described in the book and even as to the reading of the ragas which he describes. No scholar has been able to give a thoroughly satisfactory account of these. work deals with the whole range of musical form and composition and gives a very detailed account of ancient musical theory. It also mentions a number of musical writers between Bharata and the author, but none of their works survive tn-day. The fundamental scale (suddha rāga) of Śārngadeva is Mukhārī, the modern Kanakāngi, which is the suddha scale of Carnatic music to-day.

The fourteenth and fifteenth centuries are the most important in the development of the Northern school. It was the time of the Muhammadan conquest. Many of the emperors did a great deal to extend the practice of music and most of them had musicians attached to their court. From this time dates the introduction of Persian models into Indian music, and we also find the differentiation of the northern and southern schools becoming more marked. Amir Khusru was a famous singer at the court of Sultan Alla-ud-din (A.D. 1295-1316). He was not only a poet and musician but also n soldier and statesman and was a minister of two of the Sultans. The cavali mode of singing-a judicious mixture of Persian and Indian models—was introduced by him, and several of our modern ragas are said to have been originated by him. The Sitar. a modification of the vina, was probably first introduced by him. There is a story told of a contest between Amir Khusru and Gopāl Naik, a musicinn from the court of Vijayanagar. While Gopāl was singing a beautiful composition, Khusru bid nuder the throne of the king and nfterwards imitated all the beauties of Gopal's melodies and even surpassed them. Muhammadan historians relate that, when the Moghuls completed the conquest of the Deccan they took back with them to the North many of the most famous Southern musicians, in the same way that they took toll of the Indian architects and sculptors

for their new huildings.

The Ragatarangini, composed by Lochannkavi, prohably helings to this period. The major parties of this work is devoted to the discussion of a number of sings by a poet named Vidyapati, who flourished in the fifteenth century at the court of Raja Siva Singh of Tirhut. The author also describes the current musical theories of his day and groups the ragas under twelve thats or fundamental modes.

The development of the bliakti revival in North India and Bengal under Chaitanyn (A.D. 1485-1533) was accompanied by a great deal of musical activity, and it was at this time that the popular musical performances, known

as Sankirtan and Nagarkirtan were first started.

The Emperor Akbar (A.D. 1542-1605) was a fervent larger of music and did much for its development. During his reign ragas were enasiderably modified under foreign influence and, though some of these modifications transgressed the established practice, they were not the whole to the advantage of music and helped to give to Northern music some of its morn pleasing characteristics. Durbari or chamber music was introduced in the time of Akbar, and from that time developed side by side with the music of

the temple and the drama.

Haridas Swami was a great Hindu saint and musician who lived at Brindahan, the centre of the Krishna cult on the hanks of the Jumna, in Akbar's reign. He was considered nne of the greatest musicians of his time. Tan Sen, the celebrated singer of Akhar's cnurt, was one of his pupils. Many interesting stories are told of Tan Sen, whose name is still frogrant throughout India and 'like whom there has been no singer for a thousand years.' One of these tells how the Emperor after one of his performances asked him if there was anyone in the world who could sing like him. Tan Sen replied that there was one who far surpassed him. At once the Emperor was all anxiety to hear this other singer and when told that he

would not oven ohey the command of the Emperor te come to court, he asked to he taken to him. It was necessary for the Emperor to go in disguise as the humble instrument-carrier of his singer. They came to the hermitage of Haridas Swāmī on the hanks of the Jumna, and Tān Sen asked him to sing hut he refused. Then Tān Sen practised a little trick and himself sang a piece hefere his old master, making a slight mistake in doing so. The master at once called his attention to it and showed him how to sing it properly, and then went on in a wonderful hurst of soog, while the Emperor listened coraptured. Afterwards, as they were going back to the palace, the Emperor said to Tān Sen, 'Why cannot you sing like that?' 'I have to sing whenever my Emperor commands', said Tān Sen, 'but he only sings in obedience to the inner voice.'

Rāja Mān Singh of Gwalior, one of the groatest of Akbar's ministers, was also a great patron of music and is said to have introduced the dhrupad style of singing. The Gwalior court has maintained its high musical traditions to

the present day. /

The disciples of Tão Sen divided themselves into two groups, the Rabābiyars and the Bīnkārs. The former used the new instrument invented by Tān Sen, the rabāb; while the latter used the bīn, as the vīnā is called in the north. Two desceodants of these are living to-day at Rāmpur, a small state which has been famous for many conturies for its excellent musicians. The representative of the Bīnkārs is Muhammad Wazir Khān, whose paternal ancestor was Nabi Khān Bīnkār at the court of the Emperor, Muhammad Shah; and Muhammad Ali Khān is the representative of the Rabāhiyars.

The heroic Mîrñhāī (c. 1500), wife of a prince of the Udaipur clan and famous poetoss and musician, and Tulsī Dās (1584), the singer and composer of the Hindī Rāmāyana, are representatives of musical culture in North

India.

Pnņdarīka Viţţhal was probably another musician of Akbar's reign. He lived at Burhānpur in Khāndhesh and may have heen asked to go over to Delhi when Akbar took Khāndhesh in 1599. Puṇḍarīka wrote four werks:

Snadrāgachandrodaya, Rāgamālā, Rāgamañjarī, and Nartananirnaya: these have recently been discovered in the State Lihrary of Bikanir. It appears that the music of Upper India was getting into confusion, and Pundarīka seems to have been asked by the Raja Burhānkhān to hring things into order. Pundarīka was a southern pandit, as he himself states, calling himself 'Karņāţika', or helonging to the south; and so he had como to know both the northern and southern systems. He adopts the suddha scale of the south and describes many northern rāgas. In describing his rāgas he seems to make use of only fourteen śrutis in the octave, and uses only twelve frets for his vīņā.

Rāma Amātya, a southern musician, gives us the first detailed exposition of the southern system in the Svaramela Kalānidhi, written about the year A.D. 1550. This work contains the first collection of Indian rāgas which are adequately described. All of them helong to the Carnatic system and have shadja as their tonic. It seems that, in the south at least, rāgas have now heen worked out from a common tonic, indicating that instrumental music had

greatly developed.

Following this comes the Rāgavibodha, one of the most important works on Indian music, written in A.D. 1609 by Somanātha, a Telugu Brahman of the East coast, probably of Rajamandry. He was evidently a practical musician as well as a scholar and poet. The book is written in masterly couplets in the Ārya metre. It starts with the theory of musical sounds and goes on to describe the different vīṇās in existence and how to use them. The names and positions of the twenty-two srutis are given. Somanātha helongs to the southern school and classifies the rāgas into primary and derivative (Janaka and Janya) as is done in modern south Indian music. He also gives a number of melodies developed from the rāgas. A translation of this work was appearing in the Indian Music Journal when it met with an untimely death.

Another important work of the southern school which was written about the same time is the Chaturdandi Prakāšikā, whose author was Pandit Venkatamakhi, son

of Govinda Dikshit and pupil of Tanappacharya, who is said in carry his gurubarampara (scholastic succession) right back to Sarngadeva himself. This work gives the hasis of the present-day southern system and also of its The ragas are arranged under seventyraga classification. two primary ragas, called Melakartas, with a large oumber of derivative ragas attached to each. This author makes use of the twelve semitones only in describing the ragas.

In the northern school Sangita Darbana, or the mirror of music, is a pupular work writted by Dāmodara Misra about A.D. 1625, when Jahāngir was Emperor. This book has become as upintelligible as the Saigsta Ratnakara, from which the author has freely copied most of his materials for the chapter oo svaras. He has added a chapter oo ragas which is copied from some unknown author. Various pictorial descriptions of the different rapas are given.

There were many good musicians at the court of Shah Jahan (1628-66), among them being Jagannatha, who received the title Kavirāja; and Lal Khao who was a descendant of Tao Sen. We are told that on one occasion Jagannatha and another musician named Dirang Khao received from the Emperor their weight in silver, which amounted to about Rs. 4.500.

Duriog the reign of Auraogzeb music went out of favour in the royal court. A story is told of how the court musicians, desiring to draw the Emperor's attention to their distressful cooditinn came past his balcony carrying a gaily dressed corpse upon a hier and chanting mournful funeral soogs. Upon the Empernr enquiring what the matter was, they told him that music had died from neglect and that they were taking its corpse to the hurial graund. He replied at once, 'Very well, make the grave deep, so that neither voice oor echo may issue from it.'

The Sangita Parijata, one of the most important works of the northern school, was written by Ahohala Pandit in the seventeenth century. It was translated into Persian io the year 1724. Ahohala seems to have had access to both the Ragataragini and the Ragavibodha. The suddha scale of the Parijata is the same as that of

the Tarangini. Ahobala recognizes twenty-nine srutus altogether in the octave, but he rarely uses more than twelve to describe his rāgas. He gives altogether 122 different rāgas. The Pārijāta is the first work to describe the twelve svaras in terms of the length of the string of the viņā, so that we are able to reproduce to-day the notes that he used.

The next author of importance is Bhavabhatta, who was attached to the court of a raja named Anupasitha. His ancestors came from the province of Abhīra in Mālwā and his father was Janārdanahhatta, a musician at the court of Shāh Jahān. It is possible that he was the great musician of that name who obtained the title 'Kavirāja' from the Shāh. The family may have belonged to a southern stock, as he shows considerable acquaintance with the southern system of music. He classifies all the rāgas under twenty thāts (primary rāgas) and his suddha scale is Kanahāngī, the suddha scale of the south. He seems to have attempted to arrange the northern rāgas according to the southern system.

About this time Purandara Vitthala wrote many beautiful songs in Kanarese, which are used to-day by the pupil as exercises at the beginning of his musical studies.

According to Sir S. M. Tagore, Muhammad Shāh (1719) was the last Emperor to have famous musicians at his court. Among them wero Adarānga and Sādarānga, two great Bīnkārs. During this period the singer Shori perfected the Tappā style of Hiudusthani singing. New types of song and music were also introduced, many of which were pleasing combinations of the Hindu and Persian styles.

In the early British period Indian music was generally confined to the courts of the leading Indian princes, as most Europeans regarded it as primitive and unscientific. There were, however, scholars like Sir William Jones and Sir W. Ousley and amateurs like Captain Day and Captain Willard who made a considerable study

of it.

In South India, the Marāthā king of Tanjore, Tulajājī (A.D. 1763-1787) encouraged musicians hy gifts and grants

of land, so that they came to his court from the whole of India, and Tanjore became one of the most important musical centres in India. This king was also the author of an important treatise entitled Sangita

Saramritam.

The Nagmat-e-Asaphi, written in A.D. 1813 by Muhammad Rezza, a nobleman of Patna, is a critical work on northern music. He pronounces the various northern systems of classification to be out of date and has no use for the raga-ragini-putra basis upon which they build. He gives a new system of his own which brings together into groups ragas which have similar features. This work is the first authority to take the Bilaval scale (similar to the European major mode) as its suddha scale. This is the suddha scale of the north to-day. The author tells us that he wrote the book after consulting the best artists available in his day. It is said that his raga lahshanas (definitions) are still of use for Hindusthani musicians.

About this time Mahārāja Pratāp Singh of Jaipur (A.D. 1779-1804) called together a conference of musical experts and artists in Jaipur in order to arrange for a standard work on Hindusthani music. The book which resulted was called Sangtta Sara or 'Epitome of Music.' The literary talent available does not seem to have been of a very high order, but it preserves for future reference the opinions of a body of musicians upon current thought and practice. Here also the śuddha scale is Bilāval, which by then seems to have been recognized as the regular Hindusthanl śuddha

scale

Saingita Ragakalpadruma written by Krishnanada Vyasa and published in Calcutta in 1842 collects together all the masterpieces then available of Hindi composition.

It should be remembered that all these authors use some form or other of the Sanskrit sol-fa notation which is the basis of the notation adopted in this book. (See

Introduction).

While the northern system was thus trying to find a new basis of classification, the south was going ahead in musical composition. Tanjore was for many years one of the most important musical centres of India. It was here that

Tyāgāyya or Tyāgarāja, the great singer and poet (c. 1800-1850) composed and sang his songs, and gathered around himself a band of disciples who have continued his tradition till the present day. His charming kritis and kirtanas are still sung all over the south. He was a creative musical genius and his compositions mark a definite advance in south Indian musical development. One who remembers him describes him as 'a tall lean man with a brown complexion.' He was revered as a perfectly sincere and selfless man. His father was Rama Brahman, who was also a musical composer of some repute. The rishi Narada is said to have appeared to Tyagaraja and to have presented him with a rare musical treatise entitled Svararnava. His teacher was Sunthi Venkataraman. Music and religion were woven together in his life, and his songs were the outpourings of a real devotion. They were said to have been composed on Ekadasi days, when he fasted all day long. Tyagaraja introduced Sangatis-peculiar variations upon a particular melody-iuto his music. Each variation, while rotaining the important features of the original melody, hecomos more and more elaborate. Originality was the distinguishing mark of all his compositions.

Govinda Mārar was another well-known southern musician of this period. He lived in Travancore, a native state with a long and honourable musical tradition. Govinda Mārar was known as Shaṭkāla Govinda, because he could sing a piece in sextuple time. A story is related of his meeting with Tyāgarāja. A numher of musicians including himself were seated with the master when a pallavi (chorus) in the rāga pantuvarālī was sung round by all. Govinda, using his own peculiar tambūr which had seven strings, sang it in shaṭkāla (sextuple) accelerated time. Tyāgarāja was so astonished that he gave him the name of Govindaswāmī and composed a song in his honour which begnn, 'There are many great men in the world and I

respect them all.'

Muttuswāmi Dīkshita and Śyāma Śāstri were both contemporaries of Tyāgarāja. The former belonged to the Tinnevelly District and invented a new system of Indian notation which makes use of the different vowel syllables

to indicate the various vikrits of each svara. Ettiyapuram Subrama Dikshita, his great grandson, has also written in Telugu a very important work on the southern system, which endeavours to apply the principles of Sardgadeva to modern music.

Many of the rajahs and princes of Cochin and Travancore were good musicians, among whom the most brilliant was Perumal Maharaja, whose compositions are in six languages: Sanskrit, Tamil, Telugu, Malayalam, Hindu-

sthani, Marathī.

In Bengal, in the latter half of the nineteenth century, Sir S. M. Tagore produced a number of important works on music. His *Universal History of Music* is a work of considerable value. The Bengal pandits, including Tagore, adopted the old Hindusthani rāga-rāgiņī-putra classification for their rāgas.

Dr. Rahindranath Tagore is a relative of Sir S. M. Tagore and exercises the most potent influence to-day upon music in Bengal. He has left the beaten tracks of Bengali music and has made new paths for his melodies. His songs have rare musical and poetical qualities and

are known all over Bengal.

The Indian rajahs and princes still have in their service many famous musicians, but unfortunately many of them depend almost entirely upon tradition in the rendering of ragas and melodies. There seems to be no generally accepted system for Hindusthani music, though efforts are heing made to day by many scholars to work one out. The southern system, as readers will have gnessed, is far more carefully systematized, and perhaps errs on the side of rigidity.

During the last few decades the scientific study of music in India hns made great advances. Musical schools and associations have sprung up nll over India; and to-day we find them in existence in such widely separated places as Bombay, Poona, Bangalore, Lahore, Gwalior, Baroda, Tanjore, Mysore, Trivandrum, Calcutta. The Gändharva Mahā Vidyālaya, as the Bombay school is called, was first established in Lahore by Pandit Vishnu Digambar Paluskar in 1901 and then in Bomhay in 1908. It has its

fine head-quarters in Sandhurst Road and is supported by Mahārājas and govornment officials. The staff consists of forty teachers, both men and women, twenty-nine of whom belong to the Bombay branch; and its income is about Rs. 30,000 a year. Both vocal and instrumental music are taught, either individually or in classes. The school io. Calcutta, under the name of Sangīt Sangha is a receot institution, and experiments are being made along the lines of the combination of the Indian and European systems.

The most noteworthy recent devolopment has been the series of All-India Cooferences, inaugurated in the year 1916 by His Highness the Mahārāja of Baroda, which led to the establishmeet of an All-India Music Academy in the year 1919. The Conference has been held annually sinco 1918, and has done a great deal of useful work in stimulating interest in aud promoting the study of Indian music and in the systematization of Hindusthani ragas. It has made possible the discussion of musical problems by a gathoring of artists and experts drawn from the whole of India, a free interchange of thought and opinion by musicians of all races and climes in India. the attempt to find an adequate notation to express the beaution and refinements of Indian ragas and melodies. and finally the establishment of this All-India Academy. The Academy is under the patronage of many of the leading Iodian princes and has the support of meo like Mr. N. V. Bhatkhaode, who are giving themselves to the development of Indian music. It aims at providing facilities for collective and individual research, ood for the collecting and preserving of the best classical compositions, and hopes to bring about a uniform method of arranging the ragas and systematizing the melodies for the whole of fodia. The Academy of Music hopes, in co-operation with its sister organizations, to promote the development of a living musical culture. having its roots in the soil of Indie and expressing itself in nobler and more beautiful forms, so as to enrich the lives of both rich and poor.

CHAPTER III

THE DEVELOPMENT OF THE SCALE

The history of the Indian scale is really a series of close inferences; for the materials do not exist for definite and incontrovertible conclusions. This chapter aims at giving a general view of the development of the scale, based on scattered data gathered together in a fairly extensive reading of the various works which have appeared in India and elsewhere on the subject. It is not always possible to give references or to adduce the evidence for the conclusions arrived at, but the more curious reader should turn to one of the books mentioned in the Bibliography.

The principal data available for this study consist of brief references in ancient Indian literature, the tradition. of the Saman chant, the theory of the Grama scales and the musical facts implied in the various ragas used in the

past or current to-day.

The scale of the Aryan peoples is based on the tetrachord (chatulisvara). The tetrachord is the fourth with its intervening notes. This may give the following tetrachords in the Indian scale: SRGM, SrGM, SrgM, and so on. 1

The process whereby the tetrachord was first produced depends upon certain universal musical facts. The musical ear in search of a note does two things. It creeps up or down, one step at a time; and it makes a bold plunge for the nearest consonant note (samvādī) from the note which has been sounded (vādī). The voice bas a tendency to ascend by leaps and to descend by steps. Music recognizes the following consonant intervals: the third, the

¹ See table on p. 5 for explanation.

fourth, the fifth, and the octave. In making a leap to the next coosonant oote, the choice really lies between the third and the fourth, as the fifth is too far away. The fourth is the more audible and many nations have chosen this in preference to the third. The fourth theo becomes the upward limit of the tetrachord. When it comes to creeping up nr down by what may be called 'next-door' notes, the chosen interval may he one of many or quite undefined. Most commonly the major tone or the semitone were the intervals chosen, though intervals of less than a semitone were also taken in India, as we shall see from the Saman chant and from such a raga of Todi (corthern).

Coosonaoce is called Sanivāditva in India. Bharata divides svaras into four kinds, and this has remaised the accepted divisioo ever since. First there is the vādī, or sounding oote, or sonant. Theo the sanivādī, the note consonant with the vādī. Svaras between which there is an interval of nine or thirteen srutis are sanivādī with each other. Svaras at an interval of two srutis from the vādī are called vivādī, or 'dissonant' in relation to it. The others are called anuvādī, or 'assonant', i.e. oeutral

io relation to the vadi.

The stuti or microtonal interval is a divisioo of the semitone, but not necessarily an equal division. This divisioo of the semitece is found also in anciect Greek music. It is an interesting foct that we find in Greek music the counterpart of many things io Iodian music, and we have a good deal of information about the development of Greek music; so we may look to get help from that source io our study of Iodian music. The ancieot Greek scale divided the octave into twenty-four small intervals, while the traditional Iodian practice is to recognize twentytwo in the octave. Rao Sahib Abraham Pandita, a south Indian musical scholar who has made a very close study of ancient Dravidian music, helieves that the ancient Tamil hooks of the second and third century of our ero support the view that in South Indio the octave was also divided into twenty-four equal intervals. Further investigatioo is being carried out in this matter, though, as has heen already mentiooed, a Tamil lexicoo of the third or fourth

century only gives twenty-two matras for the octave. i.e. twenty-two srutis. The sruti is really a kind of half-way house to the semitone. More than two srutis are not usually sung in succession, though there are of course people who will sing the whole twenty-two of them in succession. Still that is acoustics and not music. So also the totrachord might theoretically consist of as many notes as there are srutis within the fourth, but practically it is difficult to sing or plny more than four notes.

The Saman chant is the oarliest example of the Indian tetrachord which has remained until our time. In this the tetrachord is conceived of as a downward series of notes from the highest. Most of the early Indian modes, called Murchhanas, were also conceived as extending downwards. The Greeks too thought of the tetrachord

in the same way.

The Saman chant pivoted on two notes called the udatta - raised'-the higher one, and the anudatta- not raised'. the lower one. In course of time the interval between these was established as a fourth. Then, later, the agtes of this tetrachord received distinct names. The highest was prathama- first '-then dvittya, trittya, chaturtha. down the scale. These names are found first in the Rikbrātišākhya (C. 400 B. C.). Later, a note called svarita is also mentioned, and this seems to be a graced udatta, thus indicating a note higher than the prathama. Later still we find this note definitely established and called krushta- high ' (Taittirīva-brātisākhva c. A.D. 400). About the same time two other notes lower than the chaturtha appear. These are called mandra-'low', and atisuarya- extremity'. This last was an extra note and was usually sung only in the cadence of the Saman chant. So we find the whole series of the soven notes, or svaras as they were called, of the octave.

We must, however, remember that there is a South Indian tradition that the raga Abhogi (S R g M D) reprosents the ancient Saman chant. This is pentatonic, and there can be little doubt that the Saman scale was pentatonic before it became heptatonic. We find that

the pentatonic was the more primitive scale among all

peoples.

It is the custom of Saman singers to-day to call the higher tetrachord uchcha-'high', and the lower nichalow': but it seems probable that, while these terms may have originally only referred to a difference of position, later they came to mean a different style of singing. Saman singers to-day seem to sing chromatically in the

uchcha ootes and diatonically in the nīcha notes.

The voice is prior to the iostrument. This is prima facie so probable that it can bardly be said to need proof. It is implied in the statement of Aristoxenus, that the natural laws of harmony cannot be deduced from instruments.' At any rate it is true that songs precede scales. It is impossible to think that a mother waited to siog a lullaby uotil a scale had been worked out in which to sing it. When people sing simple soogs, they often know nothing about the iotervals used in them, but they sing them all the same. We cannot say how people began to find them out. In out-of-the-way places singers use very few notes. Children use fewer than odults, country people fewer than townspeople, and flat-land dwellers fewer than mouotaineers. It was a long time before the fifth was used and looger still before the octave came into use. The songs of primitive people were made up of a few musical intervals. Then, as instruments were joined to the voice, they got accustomed to the third, the minor tooe and the semitone. Theo they began to sing diatonic series such as S R G M, or S r G M, and so on. Or they might proceed by a leap of two semitones, and theo make the fourth, as in Srg M; or else the leap might come after the first semitone, as in Sr G M. Then they might fied a third way by using intervals of less than a semitone, as in S r g M. So the interval of the fourth became filled up partly by experiment and partly by theory.

The typical ancient Indian jostrumeots were the drum (dundubhi), the flute (murali), and the vina. The vina was used mainly in accompaniment, and the flute by itself, as when Krishna charmed the gonis of Briodabao. As all

music was largely improvization, the accompaniment could oot be a strict following of the singer, though it is wonderful to see the way singer and player will keep close to one another all the time, even though neither has any piece of written music before him. Then also the instrument helped to register the notes and to define them. It was through the instrument that the importance of the major third, which has been called the Magna Carta of music, was realized. Further, through the instrument, the musician began to base his melody oo the lower ootes, as they are the louder and clearer oo the iostrument; whereas, when there was no iostrument, he started from the higher notes and came dowowards. It was also opted that the third obtained from the voice is slightly sharper than the third obtained from on iostrument, eight śrutis as ogainst seven śrutis. Bharata calls this difference of one sruti a pramana sruti,- indicativo interval', because all the other intervals can be deduced from it, a fact which the Greeks also noted. So by the co-operation of voice and instrument the scale is worked out; and in one seose the instrument may be called 'the originator of the scale,' because it determines it.

It must, however, be remembered that a soog or piece played on ao instrument is a live thing and does not submit to mathematical precision. There is, it is true, only one form for each scale, and every singer and musician tries to get it right, though no one invariably manages to do so. The very fact of putting passion (rasa) into music means that a particular note will be taken rather sharper at one time than at another. The law is there of course to be obeyed as perfectly as possible. In South India the use of the term sruti for such a possible sharpening or flattening of particular notes recognizes the truth of this variability. Music after all is an art and not a more mechanism. Nobody can sing like a machine, even if he tries, any more than a man con walk in a perfectly straight line or breathe as the clock ticks.

The correlation of the notes of the Saman chant with the ootes of the secular or instrumental scole is another step in the process of this interrelationship of voice and instrument. We find evidence of this correlation as early as the Rikprātisākhya in the statement that 'the yama (liturgical scale) is the svara (instrumental).' As we have seen, the Sāman scale was cnaceived as a downward series and the instrumental scale as an npward series. The names used for the instrumental scale in the ancient books are thuse in use to-day all over India. The clue to the interrelation of the two scales is found in the identification of prathama and gāndhāra. With this we get the two scales as follows, each ferming a saptaka or 'cluster of seven.'

SZMAN.				SECULAR. Nishādha
				Dhaiyata
				Panchama
Krushta			***	Madhyama
Prathama			• • •	Gändhära
Dvitīya			• • •	Rishabha
Tritlya	***	• • •	• • •	Shadja
Chaturtha	***			(Nishādha)
Mandra	•••		• • •	(Dhaivata)
Atisvārya	• • •	• • •	***	(Palichams)

The external relations of Iadia in the early centuries of the Christian era are too abscure at present fer as to be able to say whether the musical systems of Greece, Arabia and Persia have any definite relationship with that of India. It is certain that there was ennsiderable intercommunication and commercial intercourse between India and each of these countries; and recent researches have shown the extent of Persian influence in India during the Maurya Empire (c. 300 B.C.) The musical systems of these cnuntries show so much resemblance in certain essential features that it seems clear there must have been some connexion between them. The likeness is much closer than it is with the music of Japan or China. It is well known that Gandhara (the district of Kandahar) was in those early days a centre of Greco-Indian culture, as the Gandharan sculptures testify, and Taxila (near Rawalpindi) was the seat of a very important Buddhist university. Though Buddhism' has never been associated with a special development of

musical culture, the fact that a scale of considerable im? portance in those days was called Gandhara, and that one of the important notes of the gamut is known as Gandhara is of some significance. The two earliest Greek scales, the Mixolydic and the Doric, show affinity with early Indian scales. All these things point to an interchange of ideas between the musical people of the two countries.

We have now come to see how the gamut of seven notes within the octave, including some smaller divisions, came to be accepted. These seven are called the saptaka, or 'cluster of seven,' and are known as the seven svaras. The first exposition of these various intervals is found in a Tamil work, Tivakaram (c. A.D. 200-300) of which mention has already been made. The scale was divided into twenty-two matras, which are similar to the srutis of the northern pandits. The Tamil books also give them the name alaku. According to this work these twenty-two srutis were distributed as follows:

It is also rather interesting to find that the different intervals are described in relation to one another. Sa to Ga is recognized as a third, Sa to Ma as a fourth, Sa to Pa as a fifth, and Sa to Dha as a sixth; the fourth being called n 'friendly' interval, the fifth a 'related' interval, and the third and sixth 'enemy intervals.' The Natya Sastra (c. A.D. 500) shows a clear perception of the various intervals: octave, fifth, fourth, tone, minor tone and semi-tone. Each of these intervals is reckoned as having a certain number of stratis as follows:-

> ... 22 grutis i.e. 1200 cents. Octava 13 Fourth 9 498 204 ... 14 10 Minor Tone 3 182 ... 8.9 2 Semi-tone ... 112 0.0

The sruti numbers are really only approximations, but the cents are of course accurate.

Thus the Indian scale divides the octave into twentytwo śrutis. As we have seen, the Greeks divided it into T

tweoty-four small intervals. The three scales were as follows:-

Ni	Sa	RI	Ga	Ma	$\mathbf{p}_{\mathbf{a}}$	Dha	Ni	
2	4	4	3	2	4	3	=	22 Iodian
								(Tamil).
2	4	3	2	4	4	3	250	22 Iodian
								(Bharata).
2	4	4	2	4	4	4	-	24 Greek.
he	India	ao be	came	later				
2	4	3	2	4	3	4		

The Greeks seem to have made the change io the third interval from 2, 4, 4 to 2, 4, 3 in the early cecturies of our era. The probable reason for this confusion is that these sruti numbers are more or less approximate to the actual vibration numbers. Thus the first three intervals may be either.

90 204 204 = 498 or, 112 204 182 = 498

Neither the Greeks nor the Hindus in those days had any means of getting at the actual numbers, so that the *sruti* numbers in both countries may cover considerable variations.

The seven svaras of the saptaka current to-day throughout the whole of India are in the order of oscent from the note which has now become the Indian tonic: Shadja, Rishabha, Gändhära, Madhyama, Pañebama, Dhaivata, Nishādha. Their sol-fa initials, also current in every vernacular in India, are Sa, Rl, Ga, Ma, Pa, Dha, Ni. It is rather an interesting thing that the ancient Tamil names were quite different, viz. Kural, Tuttam, Kaikkilai, Ulai, Ili, Vilari, Taram.

As far as one can gather, the following are the root meanings of these Tamil names: kural, open tone; kaikkilai, unreciprocated passion; ulai, place, side; ili, contempt, abuse; vilari, tenderness, compassion; tāram

(Saoskrit) high.

It is clear that the Sanskrit names current now belong to some later period after the development sketched had taken place. Thus shadja means bora of six and indicates that this note which has now become the tonic was the last to arise in a downward series. Madhyana means 'middle' and suggests that when, at a much earlier period, this name was given, that note was the central nets of the scale. The note Gandhara may be so called he cause it was the starting point of the Gandhara scale. Panchana means 'fifth', i.e. from Sa, and implies a time when Sa had become the starting point of the scale. The other names do

not imply any clear origin.

Hindu musical mythology refers each note to the tone of some animal. Tho cry of an animal tends to be always on the same note; and these names were intended no doubt to indicate in the first instance absolute pitch, and were later transferred to relative pitches. Shadja is said to be the sound produced by the peacock nt its highest rapture. Rishabha is said to represent the sound made by the cow in calling her calf. Gandhara is the bleat of the geat. Madhyama is the cry of the heron. It is also called the tonic of nature, being identified with the sound of falling water, the roar of the forest and the buzz of great cities. Pastchama is the note of the kökilä or Indian nightingale. Dhaivata is the neigh of the horse, and Nishadha the trumpeting of the elephant: the latter indicating clearly the lower nete NI, which was originally the starting point of the scale. Lower Nishadha is the first note of the Saman scale, and so the elephant has been called Samaja or born of the Saman.'

The next matter to which we have to devote attention is the history of the grāmas, or ancient scales. The first references to these are found in the Mahābhārata (A.D. 200) and the Harivanisa (A.D. 400). The former speaks of the 'sweet note Gāndhāra', prohably referring te the scale of that name, since it is hardly likely that a single note would be called sweet. The Harivanisa speaks enthusiastically of music 'in the grāmarāga which go es down te Gāndhāra', and of 'the women of Bhīma's race who performed, in the Gāndhāra grāmarāga, the descent of the Ganges, so as to delight mind and ear.' In these two references the term used is grāmarāga and we may perhaps assume that it was the same as the Gāndhāri jāti

of the Natya Śastra. The early Tamil works referring to music (Tivākaram and Silappadigāram) do not mention the grāmas. There is, however, something which seems to correspond to them, the palai, of which there are four; formed, as are the derivative grāmas, hy interchanging the stuti values of two notes.

Indian music is traditionally hased on the three grāmas; and, though their history is involved in a confused mass of somewhat contradictory details through which one cannot always see light, it is necessary to try and understand the connection between them and the rāgas of to-day. The Nātya Sāstra gives particulars of two of these, the Sagrāma and the Ma-grāma. (Adhy. 28 ślok. 41-45). The Ga-grāma is not mentioned until the Ratnākara (c. 1247). They are really fundamental scales starting from the notes Sa, Ga, and Ma, respectively. The formation of the Sagrāma and the Ma-grāma is fairly clear.

The sruti values of the intervals of the Sa-grama were

as follows :-

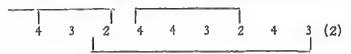
The Ma-grama is formed by interchanging the *sruti* values of the intervals before Dha and NI and then starting on the Ma. Then it will be as follows:—

Thus the difference between this and the Sa-grāma lies in the sharpened fourth; the fourth in the first case consisting of nine srutis and in the latter of eleven srutis. This distinction has persisted until to-day, and we see it in one of the fundamental distinctions in the two main classes of rāgas both in the northern and the southorn music, and particularly in the south, where it marks off one-half of the rāgas. The Ga-grāma is said by all the treatises to have heen lost, and the directions given by the Ratuākara are not nt all clear. Sārngadeva tells us to alter the frets of the vīpā in a certain way, but he does not tell us how the frets were placed hefore that alteration took place. If we

take both the Sa-grāma and the Ma-grāma and do as Sārngadeva tells us, we come to an impossible scale. If, however, we take the theoretical Ma-grāma, i.e. the Ma-grāmn with the *sruti* values changed as above, but still starting on the Sa, we come to something a little more reasonable. Then the Ma-grāma as suggested will be:—

This is the same as Bilāval, the fundamental scale of the north and also the present European major scale. Then, obeying his directions, we get the result in *Sruti* values:

2 4 4 3 2 4 3 (1)
This is the same as the Sa-grāma starting on Ga, thus:—



Wby did he get at the Ga-grāma in this complicated way? Being a musician he knew that the tonic of any scale needed the support of the drone strings, tuned to Sa and Pa. He got this by adopting (1) but he would not have got it hy adopting (2) The following diagram shows how this was done:—

The first note of his Ga-grāma is therefore in tune with his chief drone string, Pn. There is an established tradition that the Ga-grāma was abandoned because it was 'too bigh' for the voice. If, as we have seen, it was tuned a fifth higher than the Sa-grāma, the tradition may be explained; for a fifth is just the difference between two voice

registers. It may also account for the statement that 'the Ga-grāma has gone to Indraloka (heaven)', heing only fit for the heavenly singers' voices. This whole process is so complicated that it is no wonder that it wont out of use. Sārngadeva himself only regarded it with antiquarian interest. The Ga-grāma is seen to-day in the Bhairav?

raga, (Hanunatodi) a typical minor raga.

These gramas wore included in the local jatis, as they were called, being originally no doubt the different ways of einging practised in various parts of the country. These jātis wore regarded as formations from either the Sa-grāma or the Mo-grama, each starting on one note of tho octave, thus forming seven jatis for each grama. early Tamil mosical works also adopt the same method of forming fresh pālai, as they ore called, there being seven for each main modal group. Then the very important step of shifting the tonic and reducing all the scales to one common tonic was taken, perhaps as a result of the development of iostrumcotal music, as in this way they were transformed into simple instrumental scales. Perhaps the term grama raga which we have already como ocross, was first given to the iatis so reduced to the common tonic. This tonic, which may have been NI, oventually became Sa, and then gradually the term grama dropped out, as it had no real relation to octual facts, and they were called simply ragas.

. One of these ragas is then regarded as the fundamental scale, or scale of suddha or 'pure' notes; and all the other notes osed in the other ragas are thought of as vikrits or 'variations.' It is interesting to find that the suddha scale of the north is quite different from that of the south. In the north it is Bilaval, all the vikrits, except that of Ma being flats of the suddha notes. In the south it is Mukhari (or Kanakangi), in which all the vikrits are sharps of the suddha notes. Thus the former is what Europe calls a major scale, and the latter a micor scale. What is the explanation of these two suddha scales, so different from each other? It may be that the southern suddha scale—the micor one—is developed from the ancient Ga-grama and the northern one from the ancient

Sa-grama. It is very probable that the Ga-grama was anterior to the Sa-grama, though treatises make out the Sa-grama to have been the original one. One is led to this idea because there is seen to be far closer correspondence between the Ga-grama and the Saman scale than between that and the Sa-grama; and also because, if the Ga-grama was really developed from the other two, it is difficult to understand why it should have perished and the other two remained. Then, further, southern music sticks closer to the ancient model than northern music, which has been largely modified by contact with that of Persia and Arabia. In view of this suggestion it may be of interest to place down the sruti values of these two suddha scales. so that they may be compared with the two gramas.

Bilaval Sa Rl Ga Ma Pa Dha Nl Sa 2 4 3 4 2 Kanakang Sa Ri Ga Ma Pa Dha Ni Sa

It is easy to see how the latter could be developed from the Ga-grama. The fourth of the Ga-grama as given above has ten srutis, which would naturally he reduced to nino so as to bring it into tune. Then the Pa must be kept in tune so as to be played on the open string of the vīnā, and so it must be a fifth of thirteen srutis from Sa. The other changes are very slight and do not alter the character of the scale. So it is possible that we see to day the ancient gramas in the two suddha scales of India. Thus the scale in India is the result of a regular and scientific development of both vocal and instrumental music.

The scale as it exists to-day is one with great possihilities in regard to musical formations, and it has a very wide range in the microtonal variations included in it. The Indian musician is always trying to ornament his notes, because grace plays in the Indian system the part of harmony in the European. These ornaments are made by slight and indefinite variations, which may be quite different from what we have called the srutis, which are

defined microtonal intervals used to bring notes into tune with one another. It may not be generally known that European singers and violin players aim at such deficite microtonal differences under special circumstances, and whenever the accompanying harmonies do not preclude their doing so; but, unfortunately for them, these same harmonies have so limited their scope for indefinite grace notes, that their exuberance can find no better means for expressing itself than the tremolo; whereas, with no harmony to hamper his music, the Indian can reveal it in as many graces as he desires. The Indian scale, with all its srutis and possibilities, resides in the bosom of the Indian musician, 'who is dear to the gods'; and it only comes out in his soogs, the intonation of which changes from day to day and from mood to mood.

CHAPTER IV

RAGA-THE BASIS OF MELODY

Raga is the hasis of melody in Indiao music and a substitute for the wostern scale. It is the attempt of an artistic nation to reduce to law and order tho melodies that come and go on the lips of the people.' In Raga Vibodha, it is defined as 'an arrangement of sounds, which possosses varna, furnishes gratification to the senses and is constituted by musical notes.' The term 'varna' refers to the act of singing, and is of four kinds, viz. : Sthavi-repetition of the same sound, Arohi-ascent, Avarohidescent, Sanchart-ascent and descent mixed. Mr. Strangways defines raga as 'an arbitrary series of notes characterized, as far as possible as individuals, by proximity to or remoteness from the note which marks the iessilura (general level of the melody), by a special order io which they are usually taken, by the frequency or the reverse with which they occur, by grace or the absence of it, and by relation to a tonic usually reinforced by a drone.' A simplified form of this might run: Ragas are different series of notes within the octave, which form the basis of ali Indian melodies, and are differentlated from each other by the promioence of certain fixed notes and by the sequence of particular notes.' We may perhaps find in the term 'melody-type' the best way to traoscribe rage in English.

According to ancient musical theory, there are three important notes in the rāga. These are the Graha, the Amsa, and the Nyāsa. The Graha is the starting note, the Amsa the predominant, and the Nyāsa the eoding note. The amsa is also called the vādī. Very little importance is attached to the graha and the nyāsa to-day,

and it is quite possible that they were, in the Ratnākara, the technical terms for the terminal notes of the tetrachord and not of the rāga. The amsa, however, is all-important and is called the jīva or 'soul of the rāga.' The position of the amsa has much to do with the general character of the rāga. Occasionally it varies between two notes. The amsa is not so distinctly differentiated in the music of the south, and this may point to a further development there.

All the characteristics of the $r\bar{\alpha}ga$ are embodied in its Mürchhanā or Thāt, which are the names now given in the south and the north respectively to the $r\bar{\alpha}ga$ basis expressed in notes. The amsa, and also the peculiar sequences and grace notes of the $r\bar{\alpha}ga$, are shown in this, which includes both ascent and descent. It includes all the essential facts about the $r\bar{\alpha}ga$ which the musician

should know before composing any melody in it.

Rāgas have probably originated from four main sources:

1. Local tribal songs; 2. Poctical creations; 3. Devotional songs; 4. Compositions of scientific musicians. Many of these sources may be traced in their names. Bhairavi means 'an ascetic'; Hindol is 'a swing'; Kānadā refers to the Carnatic; Multāni means 'belonging to the city of Multāni; and Megh means 'the rainy season', and so on.

We can see the same processes of formation going on to-day. Dr. Rabindranath Tagore creates new melodios from the old folk songs of Bengal. Some one finds an old Portuguese melody and puts it into an Indian setting and calls it Portuguese Tappa, as it is modelled on the wellknown Hindusthani Tappā form of melody. A famous musician takes an old raga and introduces some unconventional variation, and the result becomes a new raga named after him. Miyan Tan Sen, for example, introduced Ga and both varieties of NI into the raga Mallar, which omits them as a rule; and the result is the raga Miyan-ki-Mallar. There are quite a number of varieties of the raga Mallar by different musicians. Then others combined two or more ragas into a now one. Amīr Khusru took Hindol and a Persian melody, Mokam, and formed Yaman. Another takes Sāranga, Sindhu and Mokam, and the result is a new raga Ushaq. Or a northern musician comes across a

good southern raga, and introduces it in its southern form into the northern music, as Mr. Kirloskar, the Poona dramatist, did with the southern ragas Kāmbodhi and Ārabhī. Southern musicinns do the same with the northern ragas, sometimes prefixing the term Deśika or Hindusthan, as Hindusthan Bihāg, Deśika Khamāj and so on. This is a living process which we may watch tn-

day all over India.

The question of the systematic classification of the ragas presents considerable difficulty. For the last 350 vears the south has had a more or less uniform system, which has crystallized into the present form. Nurthern musicians, however, have had as many systems as musicians. Bharata gives only fourteen melody-basos, which he calls Jatis and Murchhamas, developed from either the Sa or thn Ma-grama. These were developed by shifting thn tonic or starting note to each note of the scale, thus forming seven for each mode. This same practice has been followed in the early Tamil books. Then Sarigadevn enumerates 264 ragas under the two gramas. Raumala of Pundarikn adopts the purthern method of classifying ragas into six principal ragas, with wives, or secondary ragas, and children, or derivative ragas. two latter are called raging and putra. A considerable number of new ragas are added by him. The Raga Vibodha adopts the southern system and recognizes twenty-three primary ragas with n large number of secondary ragas. The primary ragas of this work are Mukhārī (i.e. Kanakāngī) Revagubta, Sāmavarālī, Todī, Nādarāmakriyā, Bhairava, Vasanta, Vasanta-bhairava, Malavagaula, Rītigaula, Abhīranāta, Hamīra, Suddhavarāļī, Suddharāmakriyā, Srī, Kalyāņī, Kāmbodhi, Mallar, Samātha, Karnājagaula, Dešākshī, Suddhanāja Sāranga. Somanātha carefully describes each raga and many of them are found in the same form to-day. The Sangtta-Darpana builds up a most fanciful theory on the northern model, and this has nominally remained the principal theory of the north until to-day. Bhavabhatta attempts a rearrangement of the northern ragas on a somewhat similar system to that of the south, adopting twenty primary

ragas. Then Muhammad Rezza suggested a new arrangement of the northern system on the principle that there should be some real affinity between the raga, ragint and butra, a principle which seems self-evident, but which has not been really adopted by the north; for it is almost impossible to get from the northern musician a reasonable account of the basis of the present-day classification. Meanwhile, in the south, Venkatamakhi provided a sound system based on scientific principles which has continued to this day. The Carnatic system will be first described.

I. THE CARNATIC SYSTEM

All ragas are first divided into two main classes, primary or Janaka ragas, and secondary or Janya ragas. The first class are also called the Melakartas or 'Lords of Melody'. They number seventy-two and are formed by variations of the seven notes of the gamut in regular order, ascending and descending. They are also known as the Samparna ragas, as they contain all the notes of the gamut and are not transilient anywhere. These seventy-two are again divided into two classes by the use of the sharpened fourth (i.e. Tīvra or Prati Ma). The first thirty-six are the Sandha Ma (regular fourth), and the last thirty-six the Prati Ma (sharpened fourth). We see in this the survival of the difference between the ancient Sa and Ma-grāmas.

The first raga is the scale of suddha notes and is called Kanakang. It is the ancient Mukhari and runs as follows:



It is a most strange scale to western ears and is not common in south India to-day. Judging by the Ratnā-kara and the Svaramela-Kalāniāhi, it was very popular in the sixteenth century. It corresponds with the ancient Greek chromatic scale.

The most common raga in the south to-day is Mayama-lavagaula—the Bhairava raga of the north.



This raga is very pepular, and most southern musicians begin to learn music with this. It has quite a pleasing sound, in spite, or perhaps, because of the intervals of three semi-tones between the second and third, and between the sixth and seventh. It has been suggested that the raga Mayamalavagaula may have developed from the raga Mukhari (Kanakangi) by a medal shift of tonic one semitone higher, just as the modern Greek scale has done. Thus

	Mayandlavagaula							
В	C	שמ	E	F	G	ΛÞ	В	C
				Muk	hārī			

B to B forms the raga Mukhari and C to C is Maya-malavagaula.

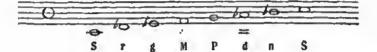
The most important primary ragas are found in the first thirty-six, with a few exceptions. The latter group of thirty-six correspond in every particular, except in the use of Prati Ma, with the ragas of the first group, one by one. Each raga starts now from the one tonic, shadja, thus giving rise to the idea that the gramas have entirely disappeared; but it is still possible to see them surviving in many of the peculiarities of the ragas.

CARNATIC PRIMARY RAGAS

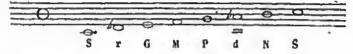
N.B.—The Amsa note has a double line underneath.

The name in brackets is that of the corresponding northern riga. The number at the side is that of the raga in the regular southern scheme. There is also added the time when the raga should be used and the passion or mood associated with it.

8. Hanumatodi (Bhairavi). Morning, sad.



15. Māyāmālavagauļa (Bhairava). Dawn, reverence.



The Arabs have a mode similar to this called Hyaz.

16. Chakravāham (Ānandabhairava). Any time, love.



20. Națabhairavi (Sindhubhairavi). Night, sad.



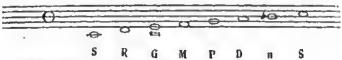
This is the same as the Hypo-Dorian plagal mode.

22. Kharaharapriya (Kaphī). Noon, passion,



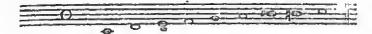
This is the Dorian mode.

28. Harikāmbodhi (Jhiiijhofi). Night, imploring, aise.



This is the Hypo-Lydian plagal mode.

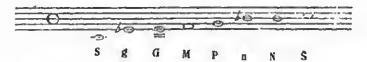
29. Sankarabharana (Bilaval). Morning, calm.



S R G M P D or n N S

This is the western major mode, with a slight difference in the sixth.

36. Chalanafa (None). Night, boldness.



45. Subhapautuvarāļī (Todī). Evening, adoration.



This probably arose from an ancient enharmonic seale basis.

53. Gamanapriya (Marva). Evening, passion.



65. Mechakalyani (Kalyan). Evening, merriment.



This is the Lydian authentic mode with the addition of F

All the rāgas given above are primary rāgas, called janaka rāgas or melakartas. From these are formed the secoudary or janya rāgas. Though it is theoretically possible to form a very large number of these secoudary rāgas by varying combinations of the notes of the octave, there are only about 400 or 500 in general use in the south to-day. A few more are found very occasionally, but altogether the total of those used will not come to more than 800. The secondary rāgas are formed by combining in various ways five or more of the notes used in the primary rāga under which they are grouped. With the exception of a few rāgas, it is the rule to use in the secondary rāga only those śrutis which are used in the primary rāga. Musical experts look askance at the introduction of unanthorized accidentals.

The following are the ways in which these secondary

ragas are formed:-

1. By the omission of certain notes in the ascent or descent or in both, thus forming a transilient series. Rāgas which only use five notes in both ascent and descent are called Odava rāgas, i.e. Pentatonic. Those using six only are known as Shādava, i.e. Hexatonic. Among the Odava rāgas are found some of the most heautiful of Indian rāgas and some of the most widely used.

The following are a few of the most important of these

transilient ragas :-

(The name of the corresponding northern raga is put in brackets).

Dhanyasi. Primary, Hanumatodi (variety of Bhairavi).

This is a very charming and plaintive raga, used especially in songs of pleading. Its characteristic phrase is P n S (G B c). Its amsa is Ni. The omitted note Dha is often used as a grace note, when descending from the Sa, after the characteristic phrase.

Madhyamavatt. Primary, Kharaharapriya. (Sāraiga) This is a very heautiful pentatonic raga, used in songs of meditation. Its characteristic phrase is R M n (D F Bb)

with both Ri and Ma as amsa notes.

Mohana, Primary, Harikambodhi. (Bhabali). very common and popular raga, used for joyful songs. is strictly pentatonic. It is also the scale of the Scotch baggines, and is one of the primitive scales of both Arabia and China. The well-known hymn There is a happy land' is written in this raga, and the tune seems to have come from South India. Its characteristic phrase is GPD (EGA) and its ainsa note is Ga.

Ārabhī, Primary, Saitkarabharana. (Ārabhī), A raga fully pentatonic both in ascent and descent. It is frequently used in devotional songs. It was introduced to the north in its southern form and with the same name by the dramatist Kirloskar. Its special phrase is R M D

(D F A) with the amsa on Ma.

Hamsadhvani. Primary, Sankarabharana,

This fascinating pentatonic raga is also used a great deal in devotional songs and in love songs too. Its characteristic phrase is G P N (E G B), with Pa as its amsa.

Śuddhanāţa. Primary, Chalanāţa.

This is a fully pentatonic raga. It is a raga of power and majesty and is popular with expert musicians. It has a most distinct and fascinating flavour. The leap phrase S G M (C E F) has a great deal to do with this. Its amsa is Ga.

Todi. Primary. Hanumatodi. (Bhairavi).

This is one of the most common of the southern ragas. The Pa is omitted altogether in the ascent, but is often lightly touched in the descent. The leap from Ma to Dha and its minor tones make it a very attractive raga. is a raga of majesty. The amsa is usually Dha, but is sometimes shifted to Ma. Its characteristic phrase is g M d (Bb F Ab).

Devamanohart. Primary, Kharaharapriya. (Saranga) This is a Shadava raga with the Ga omitted in both ascent and descent. The descent, however, varies from

the ascent. The phrase S n D P n P (c Bb A Bb G), with a slide from the Ni to the Pa, occurs frequently in

thn descent. Ri is its amsa.

Kāmbodhi. Primary, Harikāmbudhi. (Khamāj or Jhinjhntī). This rāga is hexatonic in the ascent only. Its peculiar phrase is P D S n (G A D B), and it uses both varieties of Ni, the accidental being found specially in connection with the phrase S N P D S. It is a very common rāga and is used in devotional songs of praise.

Hindolam. Primary, Natabhairavi. (Malkos). This is quite different from the northern Hindol which, however, has the same swinging rythm. The northern Hindol comes in the Gamanapriya Mela and so uses the sharpened fourth. This raga is used for love songs of a juyful character. The swing phrases are easily noted. Its

nmáa is Ma.

2. The other way of forming the secondary ragas from the primary is by peculiar combinations, making use of all the notes of the octave in varying order, in ascent or descent or in both. The following are some of the most important of these.

Punnagavarāļi. Primary, Hanumatodi.

This raga usually starts on Ni and it has Sa for its amsa. It is specially used for snugs of sorrow, and has a rather low tessiturn. Its characteristic phrase is Sg Md (CED FAD).

Nadanāmakriyā. Primary, Māyāmālavagauļa. (Kalaingadā). This is very pupular, especially for religious folk songs and also for earnest songs of devotion. Its characteristic phrase is SrMgM (CDbFEF) and its ninsa

is Ma.

Anandabhairavi. Primary, Natabhairavi (Anandabhairavi). This is a morning raga especially used for religious soags. It has two peculiar phrases, one in the first tetracbord and one in the second. The first is SgRg (CEDDED) and the second PSndP(GCBDADG). The latter is a very beautiful leap phrase. In this raga the Ni is often sharpened in the descent, so that it almost becomes Suddha Ni, BZ is used instead of BD, and it also

makes use of a sharpened Ga in the desceot, which is practically Suddha Ga (Et). Its amsa is Ga.

Bilahari. Primary, Sankarabharana.

A very sweet raga associated with morning songs of joy. It may be sung up to noon. It is a south Indian raga and is not found in the north. This raga is very commonly used for wedding melodies. Captain Day notes one in his book which is still popular. It has two leaps, one from the third to the fifth and the other from the sixth to the octave, both in the ascent. Its characteristic phrase is D S N D (A C B A) and it has Pn as its nmss.

Hamīrkalyānī. Primary, Mechakalyānī. (Hamīrkalyānī.). This rāga is one of those using the sharpened fourth. It belongs to the latter thirty-six. It uses the Suddha Ma also sometimes. There are a number of rāgas which do the same. This rāga is one of the joyful wedding rāgas of

India in both north and south.

Śrīrāga. Primary, Kharaharapriyā.

The northern Sri is quite different, and belongs to the Kāmavardhanī or Rāmapriyā Mela, having the sharpened fourth. The southern Sri is n most fascinating rāga with a flavour of haunting sadness, and is used in songs of sorrow. The ascent is pentatonic and there are three special phrases: SRMPn (CDFGBb), SRNS (CDBbC), PnDPnS (GBAGBbC). Suddha Ga

is often used instead of komal Ga in the descent.

There are of course many other popular and beautiful ragas, but space does not allow us to add any more here. It is an interesting fact that one of the most popular of the southern primary ragas is Sankarabharana, which is the western major mode. This and the Harikambodhi Mela are the two most common primary modes in the south, judging from the number of secondary ragas connected with them. This does not correspond with a very general opinion in western countries, that Indian music is all in the minor modes. Among the most popular ragas in the Sankarabharana Mela are the sweet Kanada with its pretty lilts; Navaroj always sung in the middle register; the sweet and plaintive Nuambari; the bright and merry Suranandini; the proud Adana with its peculiar

phrase P D N D (G A B A); Bihagadā, the rāga of argument, using both suddha Ni and komal Ni; the pleasant Bihag, beloved both in north and south: the stately Darbārī, and very many more. The next most popular melas are Naṭabhairavī and Kharaharapriyā, both of which are in the minor mode, having two flats each. These two rāgas and their secondaries are often used in religious songs.

Maysmalavagaula and Hanumatodi are the only other primary ragas, with a large number of secondary ragas connected with them. Both of them have a characteristic flavour and are very popular. The former group supplies many of the melodies for the folk-songs of the people, sung by the bullock-cart driver, the boatman and the labourer.

One must emphasize the point that these ragas are not the melodies themselves but the groundwork from which the melodies are afterwards formed. A thousand different

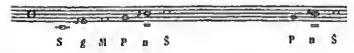
melodies may be composed upon the same raga.

Many of the rāgas have characteristic grace notes attached to them. In Bihāg Ri is only used as grace, and in Bihāgadā Ni is always played with the grace note Sa. In Hamīrkalyānī Ga has its grace note, and so on. These grace notes are essential constituents of the rāga and not simply accidentals as in western music.

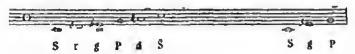
CARNATIC SECONDARY RÄGAS

The characteristic phrase is shown at the right-hand side.

Dhanyast. Primary, Hanumatodt. (Variety of Bhairavt). Morning, pleading.



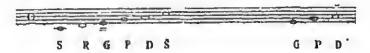
Bhūpāla. Primary, Hanumatodt. Early morning, praise.



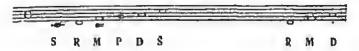
Madhyamāvatī. Primary, Kharaharapriyā. (Sāranga). Noon, calm.



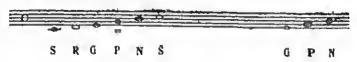
Mohana. Primary, Harikambodhi. (Bhapali). Noon, sweetness.



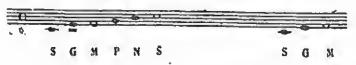
Ārabhī. Primary, Śankarābharaņa. (Ārabhī). Morning, mystery.



Hanisadhvani. Primary, Sankarabharana. Noon, entreaty, expostulation.



Suddhanāța. Primary, Chalanāța. Night, power and majesty.



Todi. Primary, Hanumatodi. (Bhairavi). Morning, sad.



Srg M d n S S n d P M g r S g M d

Devamanohari. Primary, Kharaharapriya. (Variety of Saranga). Night.



S R M P D n S S n D n P M R S

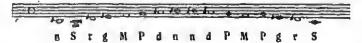
Kāmbodhi. Primary, Harikāmbodhi. (Khamāj or Jhinjhofi). Evening and night, praise.



Hindolam. Primary, Natabhairavi. (Mālkos). Evening, gay.



Punnagavarāļī. Primsry, Hammatodī. Night, melancholy.



Nādanāmakriyā. Primary, Māyāmālavagauļa. (Kālangadā). Evening, calm.



Sr M G M P d N S S N d P M G r S

Anandabhairavi. Primary, Najabhairavi. Moming, devotion.



Bilahari. Primary, Sankarabharana. Morning, joy.



Hamirkalyāni. Primary, Mechakalyāni. (Hamirkalyāni). Evening, merriment.



Śrirāga. Primary, Kharaharapriyā. Evening, sadness.



II. HINDUSTHANI RĀGAS

The general remarks made in the section above on the Carnatic rāgas apply as a rule to the rāgas of the north also. The nomenclature is usually quite different, except in the cases of those rāgas which have been avowedly borrowed from the other system. Not only so, but it is not easy to attempt any description of the Hindusthani system, as most scholars have their own way of classifying the rāgas. The hasis which is adopted by the majority of the northern musicians is known as the Rāga-rāginī-putra basis. It is a somewhat fanciful system the details of which depend very largely upon the choice of each individual. There are supposed to be six principal rāgas, each one

of which has a number of raginis, or wives, attached to it, these two having a number of putras, or sons. There does not seem to be any definite qualities which determine the particular ragas which must helong to each one of these groups, or which form the principle of attachment to a particular raga. The result is that there are almost as many systems of classification as there are musicians. The tendency among scholars and practical musicians to day ie to put aside altogether this old system, and to ndopt a more rational one based on somewhat similar lines to that of the southern system.

Many different lists of the six principal ragas are given. Among them the following are the most important:—

Pundarika. Bhairava, Hindol, Desakar, Srī, Nāţa,

Nattanārāyaņa.

Muhammad Rezza. Bhairava, Mālakaunsa, Hindol, Śrī, Megh, Nāta.

Rajalı S. M. Tagore. Śri, Vasanta, Bhairava, Pañ-

chamā, Megh, Nattanārāyaņa.

Sir W. Jones. Bhairava, Malava, Sri, Hindol, Dipak,

Megh.

It will be noticed that every list contains the two names, Bhairava and Śrī. Bhairava is the Māyāmālava-gauļa of the south and Śrī is the Rāmapriyā rāga. Nearly all the other lists, with only a few exceptions, also contain these two names. Among the other names, Megh and Nārāyaṇa are varieties of Ṣankarābharaṇa. Vasanta corresponds to Gamanapriyā, having the sharpened fourth, and Hindol is also a member of this mela. The name thāt is the northern term for melakarta, or primary rāga.

From time to time various scholars have tried to introduce system and order into the classification of the northern school. Bhavabhatta was one of the first to undertake this, and he proposed to select twenty main thats as primary ragas. They were: 1. Todī, 2. Gauda, 3. Varātī, 4. Kedāra, 5. Šuddhanāta, 6. Mālavakaisikā, 7. Šrī, 8. Hamīr, 9. Āhirī, 10. Kalyānī, 11. Desākshī, 12. Desakār, 13. Sāranga, 14. Karnāta, 15. Kāmoda, 16. Hijhāja, 17. Nādarāmakriyā, 18. Hindol, 19. Mukhārī, 20. Soma. No other musician,

however, has adopted this basis.

In recent years Mr. N. V. Bhatkhande of Bombay has put forward a classification which seems to be based on reasonable principles, and is on the way to acceptance by a large number of musicians and scholars. The following are the general lines of his proposals:—

The names in brackets are those of corresponding southern ragas.

1. Bilāval group (Śankarābharana).

Those having the first tetrachord of the western major mode, with Suddha or Tīvra Dha in the second half.

S R G M P D or n N S

Included in this group are the following:

Bihāg, Kakuhh, Deśakār, Durgā.

II. Yaman or Kalyani group (Kalyani).

Similar to the Bilaval group, with the exception of the substitution of Tivra Ma for Suddha Ma.

S R G m P D or n N S

Included under this group come:— Hamîr, Kedāra, Kāmoda, Syāma. III. Khamāj group (Harikāmbodhi).

This is a modification of the Bilaval group by the change of Suddha Ni to Komal Ni.

S R G M P D n S C D E F G A Db C

The principal ragas under this are:

Jhinjhotī, Tilanga, Khambāyatī, Tilak-kāmoda, Jayajayavantī,

Some of these ragas use both varieties of Ni. IV. Bhairava group (Māyāmālavagauļa).

This has the first tetrachord of Bhairava, with either Komal or Suddha Dha, and either Komal or Suddha Ni.

SrGMPd or Dn or NSCDbergAb AbBb BBC

The following are included in this group :-

Bhairava, Kālangadā, Meghranjanī, Saurāshtī, Jogiyā, Rāmkalī, Bibhās, Ābherī-bhairava, Lalitā, Sāverī, Aoandabhairava, Gunakrī, Hijhāja.

V. Parvi group. (Kamavardhani).

This is differentiated from the Bhairava group by the use of Ma Tīvra jostead of Ma Suddba.

SrG m P d N C DD B FF C AD B C

The following are included under this group:-Śrī, Jetāśrī, Tankī, Pūriyā-dhaoāśrī, Mālavī, Gauri.

Sri raga is first meotioned by Hridaya Prakas (1667); and Hridava Nărăvana Dev. Rajah of Gadades, is said to bo its originator.

VI. Mārvā group. (Gamanabrivā).

The difference between this and the preceding group is only in the use of Suddha and Tivra Dha for Komal Dha.

m P D or C DE FE C

The following belong to this group:

Hindol, Pūriva, Panchama, Desakar, Gaur-panchama.

VII. Kaphī group. (Kharaharapriya).
These all have the first tetrachord of Kāphī, with Ni Komal in the second half.

g M P D n S D ED F G A Bb C

The following are included in this:-

Pilu, Dhanāśrī, Vāgīśvarī, Sūhā, Bhīmpalāsī, Sāranga.

VIII. Āsāvarī group. (Naţabhairavī).

This group only differs from the Kaphi group in the use of Dha Komal for Suddha Dha.

SRgMPdnS C D ED F G Ab Bb C

The principal ragas under this are:-Gāodhārī, Jaunpurī, Deśī.

IX. Bhairavī group. (Hanumatodī).

This is another modification of the Käphi group, formed by using Komal Ri and Komal Dha instead of the Suddha varieties.

SrgMPduS

It may be noted that all the alterable cotes here are Komal.

The secondary ragas attached to it are Bhūpāla, Jangalā, Mukhārī, Āsāvarī, Dhanāsrī, Mūlkos. The latter is one of the most popular of north Indian ragas.

X. Todi group. (Subhapantuvarali).

This is a mixed group formed by ragas having the first tetrachord of Bhairavi and the second of Pūrvi and using in addition the sharpened fourth. It also makes use of a sharpened seventh, somewhat sharper than Suddha Ni.

S r g m P d N or N+ S C Db Eb F# G Ab B B# C

In this group microtonal variations are frequently used. The Ri will be Atikomal, and the Dha and Ma will be less than the full sharpened semitoces. So that the true signature should be S r-g-m P d-N+S. The principal

ragas connected with it are Gurjarī, Multāoī.

It will be ooted that Mr. Bhatkhande has chosen ten of the southern melakartas (primary rāgas) for his primary rāgas, and he theo classifies all the other northern rāgas under these. As will be seen from the lists of rāgas which follow with their obtation, some of them use variants under the groups. Each group reveals a distinct characteristic, and we can see the musical nffinities which bring the rāgas in each group together. It is possible that this system may express the musical facts better even than the strictly logical system of the south.

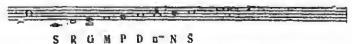
It is possible further to subdivide each one of these groups by means of such factors as the following. Thoso which have no Ma in either ascent or descent; shādava rāgas; those having both Suddha and Tīvra Ma, and so on. In this way a really useful classification of Hindusthani

rāgas may be arrived at; and probably during the course of the next few years it will be worked out thoroughly so as to come into common use. Until some such scheme is accepted, it will be very difficult to find a common basis for the northern and southern musical systems. In a short account like this it is not possible to pursue further this classification of rāgas.

HINDUSTHANI RÄGAS

The name in brackets is the corresponding Carnatic raga.

I. Bilāval. (Śaikarābharaņa). Western major mode. Morning, joy.



Bihāg. Bilāval group. (Bihāg). Night, love, tenderness.

S G M m P N S S N D P M G R S

Durgā. Bilāval group. (Śuddhasāveri). Morning.

SRMPDSSDPMRS

II. Yaman. (Mechakalyant). Evening, merriment.



SRGmPDNS

Kedara. Yaman group. (Kedara). Evening, gay-



S M m P D n N S S N D P m M G R S

Kāmoda. Yaman group. Evening.

O STATE OF THE STA

SRMm P DND S SN D P m P G M R S

III. Khamāj. (Harikāmbodhi or Khamāj). Any time, love.



Jhinjhoft. Khamāj group. (Chestchurstti). Night, love.



Tilanga. Khamaj group. Night, quiet.

SGMPNSSnPMGS

IV. Bhairava. (Māyāmālavagauļa). Dawn, reverence.

S r G M P d N S

Jogiya. Bharrava group. (Saveri). Dawn, adoration.

SrMPDSSNDPMGrS

Lalitā. Bhairava group. (Saryakāntā). Night, tenderness.



V. Parvi. (Kāmavardhani). Evening, mystery.



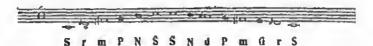
S r G M m P d N S

In the United Provinces both varieties of Dha are used. M is only a passing note.

Śrirāga. Pūrvī group. Sunset, mystery and contemplation.



Gauri. Pürvi group. Afternoon, laughter.



VI. Marvā. (Gamanapriyā.) Afternoon, love and passion.

Sr Gm D N S

G is occasionally the amsa of this raga.

Hindol. Mārvā group. Evening, calm and joy.

SGMDNS

Some say that the amaa note is Dha. There are many varieties of Hindol in use.

VII. Kaphi. (Kharaharapriya). Morning, passion.

SREMPDaS

Dhanairi. Kaphi group. Afternoon, calm.

d M P n S S n D P M

This variety is very common in western India.

Bhīmpalāsī. Kāphī group. Afternoon, quiet.

S R M P n S S n D P M R R S

Saranga. Kaphī group. (Madhyamāvatī). Noon, contemplation and illusion.

RMPDDNS

VIII. Āsāvarī, (Naţabhairavī), Evening, tenderness.

RM Pd S S nd PM g R S S

Gandhari. Āsāvarī group. (Gandharava). Evening.



S R M P d n N S S n d P M d R S

IX. Bhairavi. (Hanumatodi). Morning, sad.

MPdnS

The Amsa varies between M and d.

Malkos. Bhairavi group. (Also called Malakaunsa). Night, laughter.

Sg M d n S S n d M g S Sg M+ d n S

This is one of the popular northern ragas.

X. Todī. (Śubhapantuvarāļī). Morning, adoration.



SrgmPdNSSrgm+PdN+S Multant. Todi group. Evening, calm.



Another important matter is the time of day at which different ragas should be sung. Each raga is connected with a special mood or passion, and it is therefore fitting that each should also have a special time appropriate to it. In some cases the character of the raga itself explains this. In other cases it may be that we must seek the explanation in historical facts connected with each raga, or ic the division of the day into auspicious and inauspicious periods, which still determines so greatly the

life of the Hindu household.

The musical character of the different ragas also suggests certain explanations, which have been very carefully worked out by Mr. Bhatkhande for Hindusthani ragas. The four determinant musical factors for the time theory according to him are the following: the position of the arisa, the presence or absence of Tivra Ma, of Komal and Tivra śrutis, and the omission of certain svaras.

The day is divided into the following periods:-

1. Sandhiprakās, both morning and evening, the conjunction of dark and light, i.e. sunrise and sunset, between 4-7, both a.m. and p.m.

2. Before and ofter Sandhiprakas, from 10-4 and

7-10, both a.m. and p.m.

This gives altogether six periods in the tweoty-four

hours. He works out the following principles:-

1. Rāgas haviog Ri Komal and Ga Tīvra are Sandhiprakās rāgas, i.e. the Bhairava, Pārvī and Mārvā groups.

 Rāgas haviog Ri Suddha, Dha Suddha, and Ga Suddha come after the Sandhiprakās, i.e. the Bilāval,

Kalyāņī and Khamāj groups.

 Rāgas having Ga Komal and Ni Komal come before Sandhi prakāš, i.e. the Kāphi, Bhairavī and Āsāvarī

groups.

The question as to whether the raga should come io the first or the second half of the day is decided by two factors, the position of the anisa, and the use of Tivra Ma.

4. Rāgas having their anisa in the first tetrachord (Pārvānga) come between noon and midnight. They are

called Parva ragas.

5. Rāgas haviog their anisa in the second tetrachord (Uttarānga) come between midnight and aoon. They are called Uttara rāgas.

Ma and Pa are not counted as in either tetrachord.

6. Ma Tīvra also gives an indication of the time of the rāga. For this reason it is called Adhvadaršak, or

showing the way.' It comes in the evening Saudhi group and continues into the next group. It does not, however, occur in the morning groups, unless attended by a dominant Komal Ma in a few of the early morning rāgas, e.g. Hindol. The only rāgas sung during the day and taking Ma Tīvra are Todī, Gaur·sāranga, Multānī; and there is some doubt about these. Skilful musicians sometimes introduce Ma Tīvra as a passing note into other night rāgas, without in any way offending musical susceptibilities.

7. An additional indication of time is found in the transilient rāgas. Evening rāgas do not as a rule unit Ga and Ni altogether, and morning rāgas do not not Ri

and Dha.

In the south, the time theory is largely a matter of tradition, and while many of these principles apply, the

subject has not been carefully worked nut.

Many interesting anecdates are related which bear on this time theory. It is said that nace the celebrated Tan Sen was ordered by the Emperor to sing a night raga at noon. As he sang, darkness came down no the place where he stood, and spread around as far as the sound reached.

There are other fanciful aspects of the rāga system which have to be taken into account. It must always be remembered that in Indian melodies the mood or flavnur is of primal importance; and so many things, which appear to the West to be merely fanciful, are important factors for the music of the East.

The root meaning of rāga is 'passion', and from very ancient times each rāga has been associated with particular passions and emotions. Rājah Sir S. M. Tagore thus describes the passions to he associated with the six

principal ragas he enumerates:-

1. Srīrāga is to he sung in the dewy season, and represents love. 2. Vasanta is the rāga of the spring, and is allied with the emotion of joy. 3. Bhairava is the rāga of asceticism and reverence. 4. Paūchamā is the rāga of the calm night. 5. Megh is the rāga of the rainy season and is allied with the emotion of exuberant joy, such as the

coming of the rainy season means to so many in India. 6. Nattanarayana is the raga of battle and fierce courage.

Here is another interesting description, from the pen of an accomplished southern musiciao, of the emotions associated with the different ragas. 'All the permutations and combinations are performed on the basis of the ootes of which the raga is primarily composed and any deviations are looked upon as discordant and are scrupulously guarded orainst. Todt and Bhairavt represent majesty and impress one like the march of a stately king, decked in all his regal glory and spreading the pomp and circumstacce of his lofty position, a grand and sublime spectacle. Asavari and Punnagavarali are wrapped in melancholy, like one pleadiog the cause of n sovoreign unjustly deposed from his throne and power. Girvaut and Vasanta come serene and subdued, like a sage sitting in a lonely forest or on a mountain, calmly contemplating the benuty of the universe. Mohana and Parvakalyant appear like a coy maiden hiding her love, as a rose does its blooming petals beneath its bower of green, but withal conscious of its beauty and attractiveness. Husen seems fascination in its sadness, like a maiden estranged from her lover or spurned by him, cursing the woeful hour which parted her from his company, or eloquently pleading the justice of her cause. Biliagada comes arguing and resentful and remonstrating. Nadanamakriya, calm and thoughtful, appears like Socrates or Plato preaching the sublime truths of philosophy to his disciples. Nilambari and Yadukulakambodhi come submissive and imploring, melting the soul into streams of tender devotioo, like a true bhakta full of prayers and tears in the presence of God. Thus each raga comes and goes with its store of smiles or toars, of passioo or pathos, its noble and lofty impulses, and leaves its mark on the mind of the hearer.' I

It is noted that the sadder ragas have an average of three flats as against an average of two flats for those which picture the more joyous emotions.

Lakshmana Pillay, I.M.J., pp. 71, 72.

Indian ragas are also supposed to be able to reproduce the conditions and emotions associated with thom. Dibak raga is supposed to produce flames in octuality; and a story is told of a famous musician named Naik Gopal who, when ordered to sing this by the Emperor Akbar, went and stood io the Jumna up to bis neck and then started the song. The woter became gradually hotter until it was boiling, and he went on singing uotil flames burst out of his body and he was consumed to asbes. The Meak mallar raga is supposed to be able to produce roin. It is said that o danciog girl in Bengal, in a time of drought, once drow from the clouds with this raga a timely refreshing shower which saved the rice crop. Sir W. Ousley, who relates many of these anecdotes, says that be was told by Bengal people that this power of reproducing the actual conditions of the raga is now only possessed by some musicians in western India, and by people io western India that such musicians can only be found in Bengal.

There are many interesting anecdotes told with reference to ragas. One of those relates a story of a sonthern musician named Todī Sītārāmāyya,—so-callod on account of bis fondoess for the raga Todī,—who was a musician at the court of the Mahārāja Sarabboji of Tanjoro in the last century. The musician got into serious money difficulties, and was forced by the monoy lender to whom he went to mortgage bis favourite raga Tods for the loan he obtained. under the condition that until the money was ropaid he should not sing it before any one. It was not long before Sarabho ii missed his favourite raga and asked his musician to sing it. He explained why he could not do so; and theo the Maharaja laughed beartily at the cuteness of the moneylender and paid up the loan, besides rewarding the moneylender for bis keen appreciation of the value of music. Another story is told of a prince, who was not possessed of sufficient musical knowledge to recognize the different ragas whon they were played or sung, and so arranged with a princess, who was well versed in music, to belp him by means of a special prompting apparatus. This consisted of o set of strings, hardly visible at a distance, suspended from above, directly opposite the principal

organs of the prince's face. Whenever a raga was sung hefore him, the princess, who was sitting in an uppor chamber where she could manipulate the strings, would pull the appropriate string opposite the organ representing the raga sung. Thus for Kambodhi the ear (kadu) string was pulled, for Mukhārī the nose (mūkku) string, for Kānadā the eye (kannu) string and so on. So the prince was able to show off his skill in naming the particular rāgas. One day, however, the princess in her excitement pulled the springs so hastily, that the whole apparatus fell down, and the prince, who could no longer name the rāgas,

had to retire ashamed from the Durbar.

In connection with the science of raga, Indian music has developed the art of raga pictures. Principal Percy Brown of the School of Art, Calcutta, defines a raga as 'a work of art in which the tune, the song, the picture. the colours, the season, the hour and the virtues are so blended together as to prodoce a composite production to which the west can furnish no parallel.' It may be described as a musical movement, which is not only represented hy sound, but also hy a picture. Rajah S. M. Tagore thus describes the pictorial representations of his six principal ragas. Sriraga is represented as a divine being wandering through a beautiful grove with his love, gathering fragrant flowers as they pass along. Near hy, doves sport on the grassy sward. Vasanta raga, or the raga of spring, is represented as a young man of golden hue, standing In a mango grove, dressed in yellow garments, and haviog his ears omamented with mango blossoms, some of which he also holds in his hands. 'His lotus-like cyes are rolling round and are of the colour of the rising sun. He is loved by the females.' Bhairava is shown as the great Mahādeva (Siva) seated as a sage on a mountain top. Ganga falls upon his matted locks. His head is adorned with the crescent moon. In the centre of his forehead is the third eye from which issued the flames which reduced Kama, the Indian Cupid, to ashes. Serpents twine round his hody, which gleams with sacred ashes smeared all over it. He holds a trident in one hand and a skull in the other. Before him stands the sacred

bull. Pañchamā rāga is pictured as n very young couple, fondling nne another on a grassy sward in the midst of a forest. The rāga itself is reprosented by a young man who has large red eyes and wears red clothes. Megh is the rāga of the clouds and the rainy seasoo. Clouds stretch neross the sky, and lightning flashes pierce them. Seated upon a royal elephant, with his bride at his side, is the splendid young king who represents this rāga. He is dressed in blue garments, or is shown as blue in colnur, like the mighty Indra. 'Ho has a grave voice and vinict eyes.' Națtanărāyana is the rāga of battle. A warrier king rides on a galloping steed over the field of battle, with lance and bow and shield. Dead bodies of the slain lie

round about. Blood streams from his body.

Somn time ago Principal Percy Brown read a paper no this subject which he called 'Visualized Music'. He described it as n combination of the two arts, music and painting. He mentinned a miniature painting which was called the fifth delineation of the melody Megh Mallar Saranga, played in four-time at the time of the spring rains.' There are a large number of such paintings, all baving some reference tn a prescribed tune, performed under conditions defined by some specified season. Many nf these may be seen in the Art Gallery of the Indian Museum. Calcutta; and the India Office, London, has a fine collection. The art seems to have come nriginally from northwest India. It is not known, however, bow it originated: or whether it belongs to India or came from Persia. The Indian tendency is to visualizn abstract things, and so it is quite possible that it was Indian in origin. Principal Brown mentions that experiments have been made at Manchester University by Professor Dalbe as in the connection between music and colour. There is a school in London where music is taught in association with colour. each scale having its own poculiar colour scheme. It is evident therefore that this connection is not merely sentimental. Principal Percy Brown in the lecture referred to gives the following description of some of these raga pictures. Tody raging is one of the brides of Vasanta raga. The melody of this raga is sn fascinating that

every living creature within hearing is attracted by it. As the raga has to be performed at midday, the picture shows a nymph standing in an open landscape in the hrilliant noonday sun, clothed in a snow-white sari and perfumed with the camphor of Kashmir. In her hands she holds the vina, and all the deer in the neighbouring pastures stand entranced as she plays. The musician, as he plays, is supposed to conjure up before his audience the scene of the picture, the charm of the nymph, the beauty of her costume, the langurous scent of the blossoms, mingled with the faint odour of campbor, and the rustling sound of the nnimals as they advance enthralled. reminded of the stories of Chopin playing before the boys in such a way, that they saw all the scenes which were in his mind as he played. The Saranga melody pictures tho glare of the dosert, and the heat-waves rising and falling with the mirage of the cool refreshing stream in the distance, and the thirsty black buck galloping towards the oasis, or sobbing out its wrath on the burning sand as it realizes the hopelessness of the search. shown by a picture of a shower in the hot weather and a band of musicians who express their appreciation of the rain. The thunder-clouds hover overhoad and the lightning strikes through the sky. Peacocks spread out their tails and call in joy, and frogs sit around and croak. The god Krishna of dark blue colour stalks around. The leaf buds of the troes show new red shoots: the cattle hold up thoir heads refreshed, the herdsman standing by. Waterfowl gather round the parched pool, and overhead a borde of white herons fly across.' This subject of 'Visualized Music' is quito an untrodden path, and it is hoped that others will follow whore Professor Brown points. A collection of all the raga pictures in existence would be a very good beginning. Mr. Fox Strangways notes that the Chippewa Indians of North America also draw pictures of their tunes, by the help of which they may be sung.

Kedāra rāga, the picturo of which faces this page, is represented as a group of musicians playing and singing in the moonlight. The lotus buds are all closed. There is gaiety and sadness combined in the picture. It is the

dewy season, and it is believed that while the raga means gaiety to-day, it means also sadness in the future. The ascetic in the group typifies the illusoriness of the present.

Mogh raga, in the frontispiece, is represented by a group of musicians playing outside a fine house in the daytime during the rainy season. It is a raga of hope and new life. The clouds hang overhead, and already some drops of rain have fallen. The animals in the fields rejoice. The background of the picture is deep blue, with a rich band of brown. This raga is said to be helpful for patients suffering from tuberculosis.

CHAPTER V

TALA OR TIME MEASURES

MUSICAL time in India, more obvinusly than elsewhere, is a development from the prosody and metres of poetry. The insistent demands of language and the idiosyncrasies of highly characteristic verse haunt the music, like a presence which is not to be put by. The time-relations of music are affected both by the structure of the language and by the mothod of versification which ultimately derives from it, says one student of Indian music from the west. Until the nineteenth century, there was practically no prose in India and everything was learnt through the modium of verse chanted to regular rules. Both in Sanskrit and in the vernaculars all syllables are classified according to their time-lengths, the unit of time being a matra. Very short

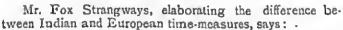
syllables of less than a matra also occur.

Great stress has always been laidby Indian grammarians upon giving the 'exact value' to syllables in verse; and as there is nn accent at all in Indian verse, the time-length is all important. This may account for the great developmont of time-measures in Indian music. The different time-measures for verse are most carefully laid down and have to be strictly adhered to. When grammar, philosophy. history and gengraphy nre learnt in verse, one gets the sense of duration and rhythm highly developed, and it is this sense of duration that is the central thing in Indian time. Any nne whn studies Indian prosody can easily see the great difficulty, to say the least, of obtaining a pleasurable result by combining Indian verse with western tunes. One of the most difficult things for the foreigner to get away from in an Indian vernacular is the stressing of syllables. The divisien into words is not at all important in Indian verse, and so music does not take particular note of this. In India words arn mere often set to music, rather than music to words. It is easy to see then the

importance of time-measure in Indian music. The westorner often finds these time-measures far more difficult to master than the melodies, strange though those often are. The varioties of time-measure may be somewhat imperfectly realized by listening to the rythmical beats of the drum in some distant village on a quiet moonlight night, when all other sounds are stilled and one can get the full benefit of this one sound. Sometimes one bears beats arranged in bars like this:

Such an exercise will not only help one to appreciate the rhythmic soul of India and the intricacy of Indian time, but will also help to pass the hours when one is forced to lie awake.

Though the nomenclature varlos, as might be expected, the theory of tāla (as time-measure is called) in the north and south is more uniform than that of rāga. As usual, a fanciful origin must be found for tāla. It is said that Bharata discovered the thirty-two kinds of tāla in the song of the lark. Raja S. M. Tagore says that the word tāla refers to the beating of time by the clapping of hands. Sometimes it is also done by means of small hand-cymbals, which are called tāla or kaitāla or kartāl (hand-cymbals). It may be that, as has been suggested, the main difficulty for westerners in realizing and enjoying the nice distinctions of Indian rhythm is that they have not acquired the babit of resolving mentally overy unit into its constituent elements, so that they could sing them at a moment's notice.



'Indian rhythm moves in avarias (bars) broken up into vihhagas (beats), each of which contains one or more talas. We can equally say of ours that it moves in sections broken up into bars, each of which cootales one or more beats. In what does the difference between the two systems consist? It may be answered that theirs is derived from song, ours from the dance or the march; that both are based oo the numbers two and three, but that they add and we multiply in order to form combinations of these. But the answer which goes deepest is that their music is in modes of time (as we saw that it was in modes of tuno), and that ours changes that made at will, principally by means of harmony. In order that rhythm, an articulation of the infinite variety of sounds, may be upon some regular plan, the plan must have some recognizable unit of measurement. India takes the short note and gives it, for a particular rhythm, a certain value as opposed to the long; Europe takes the stressed note and gives it in o particular rhythm o certain frequency, as against the unstressed, and graduates its force. We find the unity of the thythm le the recurrent bar (which is always in double or triple time, just as our two melodic modes are either major or micor), and have to look eisewhere for the variety; they find variety in the vibhaga, whose constitution is extremely various, and must look elsewhere for the large spaces of time; they find unity in the avarta, and we find variety in the sections. 'Indian rhythms have their raison d'être in the contrast of long and short duration, and to identify these with much or little stress is to vulgarize the rhythms. Stress pulses and demands regularity; duration is complementary and revels in irregularity. In order to get the true seese of duration we have to get rid of stress.'

The value which Indian music attaches to time may be judged from a description of a certain musician as 'an excellent timist,' and from the name of sextuple Govinda Nair given to a musician of Travancore, on account of his great skill in singing in sextuple accelerated time. One can hardly imagine such terms being used in the west.

Musical time is based upon the akshara or syllable. Five main note lengths are recognized, made up of a different number of aksharas. They are.

Anadruta	1	Akshara	3	Mātra
Deuta	2	11	1	11
Laghu	4	1+	1	
Guru Plula	8	P4	2	- 11
Kākapāda	16	11	4	

¹ Music of Hindusthan, pp. 217, 218.

One awarta or section contains from 2 to 4 bars or vibhagas, each of which is constituted by a number of angas (members), consisting of one or more of these time units. The virama or rest is used for lengthening the druta and laghu by any fraction.

Each avarta must begin the timo-measure correctly, and all the various time elaborations must be worked out

in the avarta.

The Sangita-Ratvakara gives 120 examples of different time-measures, formed by the combination of these timeunits, the bar varying in length from one to nineteen notes. Most of these are very unlike any of the tala omployed to day, and so there is nothing gained by discussing them. We shall therefore take up the time systom as it is to-day in both northern and southern music. Here again there is a good deal of difference between the north and the south. Many of the times are the same, but the names and the method of classification are different. As with raga, so here also, the south has a very much more systematic classification than the north. According to Carnatic music, there are soven talas, each of which has five jatis or classes. The five jatis are classified according to the number of aksharas in the principal anga. These are said to correspond to the fivo castes, and their origin is traced to the five faces of Isyara. Nataraja (Siva) is supposed to have worked these out in his wonderful dance, while Brahma played the handcymhals and Vishnu the mridanga. This would certainly have been a band worth going far to see and hear. five jatis are named after the number of aksharas in the principal beat, viz. trisra for three, chatusra for four, khanda for five, misra for seven and sankirna for nine. It is interesting to see that, with the exception of the second, all the other numbers are odd, the times being mostly combinations of two and an odd number. The same thing is found in Hindusthani tala. The other angas of the avarta havo either one or two aksharas. The following is a table of the talas as they are arranged in the Carnatic system. It will be noticed that they are not arranged in the order of the number in the principal beat, but in

the usual Indian method of arranging them, and the reason given is that columns 1 and 2, when added up make column 3, and 1 and 4 make column 5. There is probably a further reason in the fact that the four akshara time is the more common.

NAME	•	1 Cha- tusrn	2 Trisra	3 Miśra	4 Khanda	5 Sańkir- na
1. Ekatāla		1	3	7	5	9
2, Rūpaka tāla	***	2.4	2.3	2.7	2.5	2.9
3. Jhampa tāla	***	4.1.2	3.1.2.	7.1.2.	5.1,2.	9.1.2
4. Tripuța tăla	•••	4.2,2	3.2.2.	7.2.2.	5.2.2.	9.2.2.
5. Mathya tala	***	4.2.4	3.2.3.	7.2.7.	5.2.5.	9.2.9
6. Dhrava tāla	44.0	4,2,4,4	3.2.3.3.	7.2.7.7.	5.2.5.5.	9.2.9.9.
7. Aţa tāla	***	4.4.2.2.	3.3,2.2,	7.7.2.2.	5.5.2.2.	9.9,2,2,

The table shows that in eka tāla there is only one anga in each vibhāga, in rāpaka there are two, in jhampa, tripuṭa and maṭhya there are three, and in the last two four. The name eka tāla by Itself is usually given to the chatusra jāti, and the name rāpaka tāla without prefix also refers to the chatusra jāti. In jhampa tāla the miṣra jāti has the simple name, and in tripuṭa tāla the triṣra jāti. In maṭhya and dhruva tāla it is the chatusra jāti which takes the simple name, but in aṭa tāla the khaṇḍa jāti has it. These are all underlined in the table, so that they may be clearly seen. The name ādi tāla is usually given to the chatusra jāti of tripuṭa tāla, as this is one of the commonest tālas of southern music.

The avarta, as we have seen, is made up of a number of vibhagas. One of these takes the principal beat and

one of them has no beat at all. The former is called the sam in the north and mirtay in the south. The beat before the sam is called the khali, because it is the custom to show it by an empty wave of the hand. These beats are very important and the musicians have to keep them in mind, otherwise the time will go

astray.

In Hindusthani music tha time-measures are arranged somewhat differently. We have first cha tala of the chatusra variety, and none of the other jatis are used. rnpaka tala, only the chatusra (2.4) and trisra (2.3) jatis are found. There is also another kind of rabaka tala which has three angas, thus 3. 2. 2. Ihampa tala in tho north runs 2. 3. 2. 3.—a kind of doubled rapaka. There is also another kind of jhampa which goes 3. 3. 2. 2. In tributa tāta wn find thn trisra and chatusra jātis. former goes 3. 2. 2 and is called tourd. The Inter is called iitāla, tīntāl, nr trītāla—three-beat—and also kavālī in Bengal. There is also another kind of titala which goes 4. 4. 4 with the sam on the third beat. Mathya tala is represented by its chatusra jāti, which is called salaphākatā tāla nr surphākatā, meaning 'zigzag'. Samotimes it runs 2. 4. 4 instead of 4. 2. 4. Dhruva tala is represented by its chatusra jati which is called ata-chautala and has two forms: 4. 2. 4. 4 and 2. 4. 4. 4, the sam being on the first matra. The word ata-chautala means creeked four-beat time.' This time is used a great deal in dhrupads. Ata tala has three jatis in the north, viz. chautala 4. 4. 2. 2.. jhampa tāla 3. 3. 2. 2., dhamar tāla 5. 5. 4.

There are also a number of times which correspond to none of the regular southern times. These include the

fullowing :-

Farodast. 2. 2. 4. 4 or 2. 2. 2. 3. 4.

Dhīma tāla, also called in the north adi tāla, 4.4. 4.4, with the sam on the first beat.

Dādrā, also called pashto—a syncopated tāla especially used with the dādrā class of song. It runs 3. 3 with the sam on the first note.

Jhumra. 3.4.3.4. It has the sam on the first beat. This is a very popular time-measure.

Most of these irregular times were introduced by the Muhammadans.

There is also an irregular southern time called chapu tāla. It has two varieties, either trisra or miśra, viz. I. 2. or 1. 2. 2. 2. Chāpu tāla is nsed a great deal in folk songs. It is, as may easily be seen, a syncnpated time.

South Indian time experts reckon that there are altogether 108 different varieties of tala possible by means of various ingenious combinations. Most of them, it need hardly be said, are not in use, though occasionally some expert technician accomplishes a tour de force away from the beaten track of time-measures; as when Subramanayyar sang a piece in the Simhumandana tāla, which is one of the most complicated. The bar signature of this tala runs as follows: 8, 8, 4, 8, 4, 8, 2, 2, 8, 8, 4, 8, 4, 8, 8, 4, 4 or 100 aksharas. This musician it may be surmised was a prodigy in South Indian time experts.

As in western music, so in India, it is possible to include in the akshara two, three, or even more shorter notes. These are called kalai. Their inclusion does not alter the time, but renders the singing or playing of the piece more difficult. It means that the longer notes may be broken up into shorter ones, and so on, till the ahility of the performer is exhausted. A singer of Travancore was known as Shakkala Govinda Marar, because he could sing anything in sextuple time. In all this manipulation of time-measure, the main elements of the time must he retained throughout and the raga must be adhered to.

The clapping of the hands is much used in India to indicate time. There are different signs used for the different heats, so as to make quite clear what kind of time is used. The first note of a beat is indicated by a clap. This may be followed either by the counting of the other aksharas with the fingers or by a wave. If the heat is a laghu, that is one of more than two aksharas, then the other units are shown by counting with the separate fingers on the palm of the other hand. If the beat is a druta of two

aksharas only, then the extra unit is shown by a wave of the hand. For example,

× means a clap, r counting with fingers, and a wave.
This is one of the easiest ways to loara Indian time,

and one can soon get into the way of singing to it.

There are three different speeds in Indian time. They are slow-vilamba kāla, medium-madhya kāla, quick-druta kāla. Those will correspond roughly to Adagio, Moderato, and Allegro. The names used in the north for these are bilampet, joru, and durt. Dān is used for very quick time.

DRUMMING 1

As we have seen in the sketch of the History of Indian music, the drum is one of the most important of Indian musical instruments, and so it demands special treatment in accordance with aucient practice. The ordinary Indian drummer earns far more than the school teacher with twice his education. He also spends it more quickly. The following quotation from an English author will help to make clear the place of drumming in Indian music.

The drum is used not, as with us, to assert the accent at special moments, or to reinforce a crisis, but to articulate the metro of the slager's melody, or to add variety to it by means of a cross metre. There are four main elements in drumming; the quality, the intensity, the pitch of the sounds, and the time intervals between them. We de not, on the whole, use percussion much. When we do, we value it, perhaps, chiefly for the graduated intensity with which it points the rhythm. We look a little askance at varieties of quality; we recognize the drums, the cymbals, and the triangle; hut we are not quite sure how far the tambourine, castanets, and Berlioz's flannel-headed drumsticks are legitimate music. Of the pitch we only demand that it should not cleak with other counds. It is in no way a vital coastituent of the harmony, which is almost luvariably complete without it. The time intervals of the drum netes reinforce as a whole those of the other instruments; they seldom cross them, and only

produce a certain amount of confusion when they do, which however a

may be a pseful resource upon occasion.

In Indian music the graduated intensity of the sound is very little regarded, either in singing or playing or in drumming, because their whole scheme is not accentual but quantitative. It is true that the first of the bar is often louder than the rest, but not always; but this is not in order that it may, as with us, stand out against other accents : but because two quantitative schemes are apt to coincide there, and two sounds are louder than one. The time intervals are with them all important, and show great variety; it is seldom that more than a few bars, out of handreds, are drummed in exactly the same way. And the drumming is practically continuous; it is only occasionally silenced for special contrast. The pitch again is all important, for it is invariably the keynote, and frequently the drum is the singer's only accompaniment. Lastly, a maximum of variety is got into the quality; and this not mainly by the variety of the instruments. For though there are scores of shapes for drams, lambourines, cymbals, triangles and so forth, they are not usually assembled together. because concerted music is the exception, not the rule. The variety is got out of the drum, or the pair of drums themselves. They are played with the full hand and the fingers, rarely with sticks; there are half a dozen strokes for the right hand and three or four for the left. Of these Lady Wilson's drummer said, 'The beat with the left hand is like the seam of my coat, that must be there; the other notes with the right hand are like the embroidery I may put according to my own fancy over the seam.' These 'notes' are differentialed not by pitch, but by quality. They are also articulated by great latricacy of time-interval. For neither of these two things has our music any real analogues; and the Bengalis do not overstate the case la their saying, 'Yuntrapathr Mridanga,' 'tho drum Is the lord of instruments.'1

The various kinds of drum are described in chapter vii; so here we shall only take up the discussion of the practice of drumming on the mridanga or the tabla. These two are the same in principle and are the drums used throughout India for the accompaniment of vocal music.

The mridanga and tabla are both played in the same way, the only difference being that, in the case of the tabla, the two heads are on two small drums and not on the same drum. The right hand note of the drum is the keynote—the Shadja—and the left hand note a lower Pa. Exact tuning is very important, as the slightest difference will be evident and will spoil the melody, the drum being the principal accompaniment for the singer.

¹ Music of Hindusthan, pp. 225, 226.

The right hand plays the first beat of each vibbaga with the ball of the finger tips. The base of the hand is pressed on the drumhead, and the rest of the hand is curved so that the finger tips strike easily. The left hand shows the end of the har and strikes, sometimes with the whole palm, and sometimes with the lower palm and fingers. Sometimes it moves across the parchment, giving a strange sound 'like a galosh leaving the mud,' curious but by no moans unattractive. The drummer constantly varies the method of beating the aksharas in the bar. The total number must be constant and the left-hand strike must always come in at the exact moment; but outside these the drummer has the possibility of infinite variety, and expert drummers use it to the utmost. The singer depends upon the drummer to keep him to the time. He may go off into all kinds of extempore pieces and flourishes, leaving, as it seems, for the moment all semblauce of time, but the thought is always there and again he will come back to it. Mrs. Mann says.

'The Indian drummer is a great artist. He will play a rhythm

concerto all alone and play us into an ecstacy with it.

'The drummer will play it in bars of 10, 13, 16, or 20 beats, with divisions within each bar tlung out with a marvellous hypnotizing swing. Suggestions of such rhythm beaten out by a ragged orchin on the end of an empty kerosano oil-can first aroused me to the beauty and power of Indian music.'

The Indian drummer can obtain the most fascinnting rhythm from a mud pot, and some of them are great

experts at this pot-drumming.

The drummer is most particular about the ending of the drumming. This must nlways he on the Sam. The singer also ends here, and after going off into a kind of recitative, he will watch for the drummer and come back so as to end on the Sam. In the south, the treatment is somewhat different, and the Mirtāy is often on the second beat. The principal notes of the rāga, that is the Vādī and Samvādī notes, are usually placed on the Sam beat. This also iodicates to the audience where they should applaud. The Khāli is the wave-of-the-hand-beat and helps the singer to determine the Sam. It shows him when the Sam is coming, as the drummer is silent on this beat. The

Khāli always comes just before the Sam, so that, however lost the singer may be in his improvisation, the Khāli shows

him the way back to the Sam.

Drummers have a curious system of mnemonics, which tell them how the drum accompaniment should be beaten out. These are composed of syllables, each of which ladicates one particular kind of beat and also the nature of the tala as a whole. The actual syllables used vary in different parts of India but the following are some of them:—

NORTHERN

Tritala 4.4.4.4.

Tā Dhīn Dhin tā 2 Tā Dhīn Dhīn tā Tā Tīn Tīn tā 3
Tā Dhīn Dhīn tā

Rapaka 3.2.2.

Dhĩn Dhã Trik Dhĩn Dhĩu Dhã Trik

Jhampa 2.3.2.3.

Dhin na Dhin Dhin na Tin na Dhin dhin na

Chautala 4.4.2.2.

tha dha Dhin ta Kit Dha Dhin ta Kit tak gadigina

+ indicates the sam and 0 the khāli beat.

In these mnemonics, or bols, as they are called, the following are to be played by the right hand: Dhīn, Nā, Tā, Trik, Tīn, it, ki. The following by the left hand: Dha, Ta. The following are played by both hands together: Dhā, Dhīn.

The southern arrangement is somewhat different and runs thus:

Aditāla 4.2.2.

1 0 2 3 (1) Ta ti Nam Tom

Ti—by the left hand with four fingers, ti—by the right hand with four fingers on the middle of drum. Nam—by the left with all fingers.

Tom—by both hands with all fingers at once.

0 2

(2) Tadimi Takitta Tâm i.e. 2-2.4

Ta—by right hand first finger on the border of drum, di—by the left middle finger.

mi—by the right middle finger on the middle of drum.

ki—as mi.

tts—as ts.

Tām—by both hands simultaneously.

o o o

(3) Takitta tikitta Tonkitta Namkitta

Ta—by the left with all fingers and right with forefinger on the border.
kl—by right with middle finger.
tta—by right with forefinger on border.
ti—by left with four fingers.
Ton—by both bands with all fingers.
Năm—as Ton.

Rūpaka 2.4.2.4.

Talangu Tom Talangu Tay

Ta—by left hand,
lan—by right with second finger on border,
gu—by middle finger.

Tom—by both hands with all fingers.

Tom—hy both hands with all finger Tây—as Tom.

Quite a number of these curious and interesting mnemonics will be found in Mr. Fox Strangways' book, The Music of Hindosthan, pp. 228, 245.

CHAPTER VI

MUSICAL COMPOSITIONS

We have been discussing the principles of Indian music and the elements which go in make up musical compositions. We have now in see how these elements are combined into melodies. We have already seen, in the chapters on Raga and Tala, some of the things which give these melodies a distinctive character, and now we have to go into this more carefully. We shall notice that in regard in this matter also there is a very considerable difference between the north and the south. The general principles are the same, but all the forms and the names vary.

In the first place, we note that in Indian music

generally,

"the primal unity of the Indian system is, as in the western system, in the tonic note or drone; and the sense of contrast is supplied primarily by the anisa, and the notes which are related to this as sativadi, vivadi, and anuvadi. This very contrast of the anisa and the tonic, giving as it does the peculiar character to that raga, imparts unity to the melody, which thus proceeds not from necessity but from freedom."

Gamaka or Grace

This freedom is further omphasized by Grace, which in Indian music is ossential, not accidental. Indian music, being without barmony, has to give a far higger place to grace than does Europeno music. It is the rule, rather than the exception, for the passage from one note to another to be made indirectly; and the note with its grace makes one musical utterance.

Graco in Indian music is called gamaka. There are said to be altogether nineteen different varieties of gamaka in existence, but some of these are hardly ever used, and the more common gamaka are about ten in number.

Theso strange and fascinating graces or gamaka have a great deal to do with the haunting beauty of Indian music...

We hear the vinā or sitār player beginning with a shake. called in different parts of India, Orikai, Varek, Mind. or Sphuritam, and as we listen we find that it is not the ordinary shake of western music. It may begin in that way, but it becomes a wonderful shake produced by rapidly pulling the string between the frets, giving two notes whose interval may he as much as four semitones. We hear this 'deflect', as it has been called, again and again as the music proceeds, and it comes, with a sense of delightful contrast, into a melody which threatens to become monotonous. Then we hear the player trying to get the high notes and, not content with striking the note, he slides up the string to it or to the note above it, just giving us the remembrance of all the notes that lie between, so slightly as not to detract from the prominence of the note wanted. just as the breeze from some rose garden comes touched with the scent of the roses. We hear this effect frequently as the player often uses this gamaka of the Jaru (Ghasit, As, Sakth) as it is known. Then, as the molody hegins, we shall hear the regular trill or Kampitam (Kampa). on n note here and there, and then prolonged on some important note, perhaps the améa of the raga. Right from the beginning we shall have found that some notes are never sounded without an appogiatura or leaning note, the Humpitam, as the Indians call it. A note that never comes in the melody itself will suddenly appear as an abbogiatura note, or wo shall hear again and neain that slight sharpening and flattening of the notes which helps to fill up the blank caused by the loss of barmony. note that the Humpitam is part of the music, and belongs to the note, and we learn to expect it every time that note Then we hear something that is not a mere trill, nor yet a shake. Rapidly, one after the other, rising to a crescendo, we hear two notes being played, so quickly that they almost seem to mingle with one another, and yet the interval that separates them is perhaps less than a semitone or perhaps more. As it goes on, it seems almost to reach a frenzy, this zamzamma as it is called, and then out of it will come a beautiful phrase of the melody. As the melody develops, instead of leaping directly to a note a few semitones above, the musician will get there by a curious swing, which recurs again and again, something like Sa Ri Sa Pa.

or two notes recurring in a swing, as Sa Ga Sa Ga, the third note being held just a little longer than the others. Just as the melody seems about to become monotonous by repetition, the whole thing is changed by this Andulitam. as it is called. Then comes another contrast. This time the melody is struck clear by staccato notes, called fittingly Pat or Thunk. Then this also is changed, and the fingers strike flat on the sitar or vina string, and give us the Paran nates almost like the rhythmical sound of the drum beats on the mridanga. Then, suddenly, the singer or player will go right up the scale, showing all the nates, and letting us see through what strange intervals it runs, unknown ennntry much of it to western music. This is the Arnhana or ascent; and the descent is called the Avarohana, both of these being classed amongst the gamaka. As these are sung, we shall notice again the graced notes, these being called in the north Marchhana, though that name is now given in the south to the Arohana and Avarohana of the raga. Raja S. M. Tagore says of these grace notes. The Murchhand is the extending of a note to another in the ascending as well as the descending scale. without any intermediate break in the disposition of the srutis in the interval, and he calls it, the essential ornament of raga, without which it is as flowers without fragrance.' Again and again throughout the piece we hear these different graces, all coming just where they can produce the greatest effect, and not only depriving us of the chance of calling the music monotonous, but producing contrasting effects which add a strange beauty to it. Sumetimes the slide will pass over some of the intermediate notes, and then they will tell us it is a Linam and not a Jaru. Every grace belongs to the melody, and fits into its place without any sense of being unwanted or useless. As the melody approaches its climax, we hear the Ihara and the Boljhara, the melody being played slowly and clearly as a groundwork, and upon it endless arpeggio variations in accelerated time, occurring rapidly after every note, all perfectly in tune and fitting into the raga framework, and hringing out the prominent notes and phrases, like an allegro variation of one of Beethoven's Sonatas, with the underlying melody making itself heard all the time. Then by Jaru and Linam, hy Avarohana and Ārohana, the melody comes to a close with the beat of the Sam on the drum.

Among musical compositions the simplest is the Alab or Alaphana, as the northern and southern names respectively go. In this the notes of the raga are sung in n loose kind of rhythm, regulated simply by convenience. It is extemporized, and is meant to notify to the audience the nature of the raga which the melody will develop, and also to help the singer or player himself to get into its swing. This naturally hrings out the vadi and samvadi notes and also the particular phrases and gamakas which belong to that raga. Sometimes these Alaps are called Murchhana. Alab singing is one of the tests of the ability of a singer. It will often occupy about an hour. while the actual song or melody will only last for a quarter of an hour. Without the Alap, the listener would spend his time for some part of the song in ignorance of its tonal centres, and the melody would be for him an aimless running up and down hill; while the performer, without this little preliminary practice, would very likely play a note or two which was out of the raga and so upset the unity altogether.

In Hindusthani music the Alap is divided into three parts. There is first the Rag Alap which shows the principal constituents of the raga, that is its graha, nyāsa, vādī, samvādī, etc., the important notes and the notes to be lightly touched as well as the gamaka. Then, there is the Rapaka Alap which shows the division of the piece into Astāi, Aniarā, Sanchārī and Abhog, but without words and without tāla. Then thirdly, comes the Akshiptika Alap, requiring both words and tāla, hut still allowing a very great deal of freedom to the singer. According to the Ratnākara, one must hegin hy taking the vādī and using only three notes above that and the notes of the mandra sthāyī below. Afterwards one can

go into the second tetrachord and develop that. If the vādī is in the second tetrachord, theo ho should begin by taking the samvādī or elso the vādī io the mandra sthāyī. The Alāphana is oot developed in quite the same way in the south as it is in the north. It does not form such an important part of the performance, oor does it divide itself into these parts. It is simply an introduction. The different varna or sangatis take the place of this variegated Ālāp. Following the Ālāphana comes the song which may take very many forms. Then again, at the end, the music may go off into the timeless Ālāphana until it closes according to the will of the singer.

Throughout the melody the peculiarities of the raga must appear, and uorecognized variations are not allowed, except in those cases where the Alap has already given notice of them. The melody is broken up into avartas, or time sections, the number of which is usually even; and the first avarta of each movement begins in a similar

fashion.

Musical pieces in the time of the Ratnakara (1210-1247) were called Prabandhas, which name included all songs. The Gita Govinda is written to Prabandhas, the tunes of

which have now been entirely lost.

There are various kiods of melodies io use both in the north and the south. The two most important are known respectively as Kirtana and Kriti in the south, and Dhrupad and Khyal in the north. Captain Willard writes of the peculiarities of these melodies as follows:

'The melodies are short, lengthened by repetitions and variations. They all partake of the nature of what by us is called a Rondo, the piece being invariably concluded with the first strain, and sometimes with the first bar, or at least with the first note of the bar. A bar, or a measure, or a certain number of measures are frequently repeated with slight variations almost ad libitum. There is as much liberty allowed with respect to pauses, which may be lengthened at pleasure, provided the time is not disturbed.'

These melodies consist of a number of parts. In the south these are called Pallavi, Anupallavi and Charanam; and in the north, Astāi, Antarā, Saāchārī and Ābhog. The Pallavi or the Astāi contains the main subject of the melody focussed on the arnsa. The Anupallavi or

the Antara contains the second subject focussed on the samvadi, and usually includes notes of the higher tetrachord. The Charanam or Sanchart contains phrases from both the former, with or without modifications. The melody finally returns to the Pallavi or the Astal, and closes on it or on its first phrase. Sometimes the Charanam in South Indian music is formed from the Pallavi and Anupallavi together. The Pallavi is sometimes translated 'chorus'. and it does play the part of a chorus to the Kiriana. Sometimes the Anupallavi is omitted, and the song only contains Pallavi and Charanam. In northern music we have also what is called the Abhog, which is really a Coda, and ofteo includes the name of the composer. Kirianas are sometimes called Varna. The difference between Kiriana and Kriti is that the parts of the latter are oot so distinct from ooo another as are the parts of the former. Not only so, but in Kritis any number of variations or Sangatis are allowed. Sometimes there will be as many as twelve different varieties of the same Pallavi.

Tyāgarāja greatly improved tho Kriti. He was very fond of this style and most of his songs are Kritis. In some of them he is said to have exhausted every possible manner of combioing the different notes of the rāga. These alankāra (ornaments) usually occur oither at the

beginning or at the end of an avarta.

The same is true to a certain extent of the Dhrupad and the Khyāl. The former are almost entirely without ornamont, while the latter are allowed to use all kieds, and freely make use of them. The Dhrupad is a solemn reli-

gious song, while the Khyal is a light melodic air.

The Dhrupad is usually io slow time and in solected talas such as Aditala, Rūpaka tala, Chautala, and Dhīma tala. Dhrupad singing was introduced by Rajah Mān Singh of Gwalior (c. 1470). It is very exaction, demanding a voice of the large compass of about three octaves. The man who has the strength of five buffaloes, let that man sing Dhrupad,' runs and old saying. Tan Seo was a great Dhrupad singer, and Rāmpur is the home to-day of some of his celebrated descendants, who are experts at this style of singing.



Sesbanna—a celebrated vink player of Mysore



A kālakshepa party



Group of parayas with horns and drums

The Sādras is a kind of fast Dhrupad, suog in Jhampa tāla.

The Khyāl was introduced later than the Dhropad, io order to find a place for the grnces which are not allowed in the former. It was introduced by Amīr Khusrū and Sultao Husain, and developed by Sādarānga in the time of Sultao-Alāu-d-din (1296—1316). It is very similar to the Kriti of the south. It is usually a love song and is supposed to be sung by a woman. Khyāl singers and Dhrupad singers are usually different. The latter consider the Khyāl style to be too unclassical for them to use at all. The Khyāl singer belongs to the class called Kavvāl singers.

The Hori are songs descriptive of the Holi festival in December-January, and are sung by Dhrupad singers. They also have Astāī, Antarā, Sanchārī and Ābhog. They are usually sung in Dhamār tāla (5-5-4), but Khyāl singers also sing them in Dīpachandī tāla (3-4-3-4).

The Thumri is a love song to Hindusthani music. The music is lively and is well adapted to pantomine or daccing. It mixes up different rāgas and so is somewhat looked down upon by high class musicians, and it also makes use of common rāgas called Dhuns. Some of these tunes are very fascinatiog; indeed it was one of these simple little includies that kept a whole company of musical experts enraptured at Delhi during one of the sessions of the All-India Music Conference.

The Tappā is the typical Muhammadan song. It has been taken up in the south also, where it is called Hindusthani Tappā. It gives full opportunity for the exhibition of all the graces so essential to Indian music. The melody is so rich in these as almost to be overloaded with them. All these songs have a very marked rhythm and are usually in madbya kāla. Tappā sougs consist as a rule of two movements only, Astāl and Antarā. It is said to be similar to an ancient style of singing mentioned in the Ratnākara and called Visāragīti. The Tappā style of singing was first introduced by the famous singer, Shouri of Lucknow (c. 1810). It is usually set to a love song, and is very common in Hindī and Punjābī.

The Ghazal and the Dadra are two other Hiodusthani melodies. They consist as a rule of Autora nnly, suog aliko to a simple melody in syncopated time, which is known as Pashto (see page 76). The Ghazals are usually love lyrics. The Christiao Church has made a largo use of Hiodusthani Ghezals in its hymnology.

The Marsiya are songs describing the battle in which the grandsons of the Prophet were killed. They are sung in the mornings during the days of the Moharram festival. The ragas used in them are mixed, and the words are

chaoted in a kind of recitative.

Sargam or Svaravarta or Svarasahityā or Svaramā-likā aro sol-fa passages or complete songs in sol-fa, in which the Indian sol-fo initials take the ploco of words. The word Sargam comes from the first four sol-fa initials combined, viz. Sa Ri Ga Ma, omitting the vowels of Ri Ma. This solmization is very common throughout Iodia in both northern and southern music, and is considered quite a thing to be cultivated even by the best musicians. It is also a common thing to hear children, who know oothing about music, singing these syllables to different notes of the scale. Even the greatest musicians make use of this device in their songs. It is found frequently in Tyāgarāja.

The Tarāna or Tillāna is a similar melody making use of drum or tāla syllables instead of the sol-fa syllables. They use such syllables as taka taka tadingina tōm, tillālai lai lō, tāoana nānaoa, etc. The Tillāla soog, as it ls called, is very often heard from the bullock-cart driver, as he slowly wends his way oloog the dusty road. Sometimes these drum or tāla mnemonics occur just as a kiod of chorus. These songs are exceedingly popular and may be compared with the song Tārārāboomdeay and its like.

There is also a kind of song called *Trivata*, which consists of nonsense words extemporized by the singer. It is a song beloved of boatmen ond dhooly bearers, as they take the sahib to his destination. Every alteroate lice is some improvisation telliog of the sahib's supposed generosity, followed by a lice of meaningless jiegle. Or the whole thing may be a meaningless collection of mere words.

The Chaturanga (four sections) is a song consisting ef

Khyāl, Tarāua, Sargam and Trivata.

The Ragamālikā or Ragmālā consists of a series ef ragas all linked together into one composition. Only a few phrases from each rāga will be given. The whele must not simply be a string of melodies, but must have a unity. The word means 'a garland of rāgas' and aptly describes the composition. One southorn example of this form runs as fellows. First of all, in six different verses come meledies in the rāgas Śrī, Ārabhī, Gaurī, Nāṭa, Gauḍa, Mohana, one for each verse. Then follows one verse of six lines which combines them all, one in each line. After this comes another eight rāgas in eight separate verses, and then another verse of eight lines, which takes them up in the inverse order in the different lines.

The Bhajana is a faveurite ferm of religious musical recital, in which a cheir sings after a leader, accompanied by an orchestra. The subject of a Bhajana may be a story from the Rāmāyana or the Mahābhārata, or it may consist of songs taken at randem from the devotional

poets.

The Harikatha or Kalakshepa is somewhat similar to this, except that often there is no choir at all, and the singer is just accompanied by a small orchestra, while he expeunds his subject in song. This is the favourite method of religious expesition in India, and has been very largely adopted by Christian evangelists in South India during

recent years.

In Bengal the Kirtan is somewhat similar to this, with peculiarities all its own. The Kirtan in Bengal is a kind of dramatic sonata, which was first introduced at the time of Chaitanya in connection with the Bhakti revival. The theme develops from phase to phase and from emetion to emetion, and is generally based on a distinct part of the Krishna legend. It gives plenty of scope for originality and improvisation. The raga also changes with the emetion, and both music nnd melody are fluid and not rigidly hound to definite modes. There is usually a cheir to help the leader, and a small orchestra. In the Marāṭhā country, the name Kirtan is usually given to a Bhajana performance.

Abhangas and Ovis are songs peculiar to Marāthī. The former are simple religious soogs in any rāga, and were cultivated by Tukārām and the other bhakti leaders of the Marāthā land. N. V. Tilak, a Christian poet, often called the poet-laureate of western India, has composed many of these on patriotic and Christian subjects, which are very popular both among Christians and others. The Ovis is a style of song used for loog epics.

Povāda are Marāthā, and Karkhās Rājput war-songs. These fighting races of Western and Central India have made much of this war music. They are about the only peoples in India who have any distinctive war-songs.

Javādis are songs sung by Kanarese singers and coosist

only of Charanam.

In addition to all the regular musical forms mentioned above, there are also a number of folk songs set in other modes which have come down from time immemorial, most of them having a very fuscinating lilt and rhythm. In Bengal these are called Baul songs. In South India they are known as Sindhu songs, such as Kāvadi Sindhu, 'the songs of the pilgrims carrying their little decorated yokes' to the great temples; Nondi Sindhu, the halting Sindhu with its hopping-like rhythm; Tenmängu, the songs of the harvesters and the cartmen. Many of these are in some kind of syncopated time, which seems to come so natural to the Indian villager.

The Natakas (dramas) of India provide a feast for the music-lover. These are usually operatic throughout, and the managers make it their study to get hold of the best airs that exist. One can hear Indian music in some of its best phases in these dramas. The music of course is mostly popular and does not reach the high classical standard of the great singers, but since that is so often associated with n rigid adherence to certain forms and technicalities, difficult of appreciation by the common man and by the foreigner, it is possible to find in this dramatic music a charm and a sweetness unaffected by technicalities, hard for the uninitiated to appreciate. Among the most popular of these song-dramas are the stories of King Harischaodra, King Nala, Sāvitrī, the various episodes in the life of Rāma

and Sitä, and stories of the saints of the hhakti revival. The large towos have many dramatic companies which give regular performances, and strolling troupes of varying ability wander through the country and perform in the villages from time to time, so that every villager in India knows these dramas almost as well or even better than the townsman. As a matter of fact, it is a custom in many villages for the people themselves to get up their own dramas, in which certain classes, usually from the lower castes, provide the actors by ancient right and custom. It is therefore quite common to find some of the best singers to these classes.

The Sankirtan and the Nagarkirtan are popular musical performances, usually of a religious character. They have been most highly developed in Bengal. The meaning of Sankirtan is 'uoited praiso', and it denotes a large choir who sit on the floor and sing to the accompaniment of instruments. Nagarkirtan is used of a procession of devotees who go through the streets of a city, singing and dancing to musical accompaniments, and carrying many banners.

The Drone. All Indian music is played or sung to a drone. This takes the place of harmony in providing the background for the melody. Without the drone, the singer would feel as 'a ship without a rudder.' The drone consolidates the inclody as well as provides the hackground. When other instruments are quiet it keeps on the sound, so that the singer can pick up the music again, without any chance of pitching on the wrong oote. Thore are of course songs without the drone, like that of the cartmao on his lonely journey, the hostman on the backwater, the mother to her child; but in all public musical entertaioments a drone of some kind is essential. The drone may be supplied by the drum only, the keyoote and the Panchama of the two heads respectively giving all that is absolutely necessary. As a rule, however, it is the custom to have another instrumeet for the drone. The best instrument for this purpose is the Tambur. This gives the tonic, the fifth and sometimes the fourth, and makes a most charming background for the melody. The custom has come in receotly to use the harmonium for the droac. This is undoubtedly

convenient, but the prise is not by any means attractive, nor likely to add to the appreciation of Indian music by ears trained to quality as well as to pitch. There is also a special wind instrument called the Drone which is used for this purpose with flutes and reeds. The vina, sitar, sarangi, dilruba and many other stringed instruments have their nwn drone-strings, which are struck more or less regularly as the melody is being played. Thu drone, as may be supposed, goes on throughout the whole performance without cessuting, but strugge to relate does not tend to mountony, as one might think. It helps to bring nut the variety of the melody built above it. The sarangi and the sitar have, in addition, a number of sympathetic striogs. from sixteen to twenty-two, placed below the main strings and never played nn, which give nut a very nttractivn humming sound all the time the instrument is played, and provide a kind of re-inforced drone to the whole music.

Only a few of the melodies of India are described above. India is the land of melody. In such a great continent of sn many races it is only natural to find some mure musical than others. Stopping one evening in a Bengal village we heard on every side of us different kinds of music. was nothing discordant and it all blended together into a pleasing harmony. Our hoat had drawn up by a small landing stage, while the hoatmen went in their food. Out in the stream were other boats, their occupants singing love lyrics nr devntinnal sungs, as they rested for a time after their meal. In one boat was n musical party with tambur and drum. As we strolled round the village, we heard from house after house the snunds of melody. Here a wnman was singing to her baby. There a man was chanting the story of some ancient hero. In another bouse we heard the esraj, the Bengali sarangi, being played. another a Muhammadan was playing the harmonium and singing to the music. The voices were sweet and cnmposed, and the melodies were as a rule simple melodies that the village people inved. I can remember another evening in the Maratha country on the hill top of Matheran near Bumbay, going out into the glorious moonlight to listen to the song of two women as they ground their corn. One

of them would sing a line talling of some deed of Krishna. and then there would be silence, broken anly by the sound of the twn grinding stones rolling one on top of the other. Than the other would take up the song and carry on the story. Then silence again, or rather the musical silenen of the grinding, which was as the drone note to the melndy. Then again the song went on, and so on, until suddenly they discovered we were listening, and the melody stapped for that night, and all that we heard was the dull grinding sound, which still seemed to carry with it memories of that song of haunting sweetness, sung by the limpid voices of those women. I can remember mother night on the backwaters of Travancore in the extremo south-west of India. I was in a boat such as was used in the olden days by the chiefs of that land. The boat had been lent by the Metropolitan of the ancient Syrlan Christian Church and was manned by twelve stalwart rowers. All night long they sang their ancient songs, strange melodies, sometimes with nonsense words, sometimes about trees and hills and forests, sometimes about the Virgin Mary, for they were Catholics, and all with some ending suggestive of the parsman's pull, which seemed overy time to help forward the boat. The ending was something like this, Tiya Tiva-Teva Tova, with an emphasis on the first syllable of each beat, marking the pull of the oar. I slept nff and nn as we passed under the lovely palms through the monnlight, puzzling my brain as to linw they found breath for steady rowing and continual singing. I remember another evening sitting in a lonely bungalow far away frnm all towns, with a little village near by. The day had been bot and dusty and it was some Hindu festival. Just close by was a little village shrine to the god Sobramaniyar, the warlike son of Siva. After dinner was over I heard the sound of singing coming from this temple, and going nut, found two young men from the village learning the old devotinnal songs from a temple musician. He would sing a line, and then they would take it up after him. They were simple melodies set to beautiful wards af devotion, but in that quiet village they made one feel the beating heart of India.

Another time while I was staying for a few days In the realm of His Highness the Nawah of Rampur. descendant of a celebrated musical house, I heard some of the classical music of northern India played and sung by its famous musicians. Here are still descendants of the celebrated Tan Sen, the most wonderful singer of the days of the Muhammadan Empire, and his musical tradition is alive in the court. His Highness the Nawah himself is nn expert singer of Dhrupads, composed by the great Miyan Tan Sen, and Sahabzada Sadat Ali Khan Bahadur. the Home Secretary of the State, has found time to give to the cultivation of music. He himself is one of the very few expert players on the old rahah, the instrument played by Tan Sen, and the precursor of the modern Sur-śringara. With its wide bowl and metalled finger-hoard and its scope for all the peculiar slides and shakes of Hindusthani music. it sent forth under the hands of its skilled player now deep full sounds, and now the sweet high-tookd metallic sounds of a metal string. Then came a famous Dhrupad singer. He started with an Alap bringing out, one after the other, with fine full voice, the central notes and phrases of the raga. It was the Hindel raga with its sharpened Ma and with a glorious slide from the Ga to the Sa. He sang a solemn song, each note full and clear, with none of the lilts and graces which we are wont to associate with Indian singing, and occasionally using the full ascent and descent of the scale to show all its peculiarities, as well as the power and fulness of the singer's voice. There was no nasal tone here, but all from the chest. Some years back I heard a woman weeping for her husband, who had died the day before. She was a Paraya woman, one of the lowest classes in the southern peninsula, but she sang out ber grief in sad and haunting recitative, the music set to words of poignant sorrow.

'What shall I look at so as to forgst. No longer do I see him. He has gone and left me. What was it mine enemy said? Now begins the burning. My very blood has dried up.'

As she sang she heat her hreasts, pacing up and down in front of the poor little hut of thatch and mud in the centre of the outcaste village, which was her home. Then away to the north in the great wheat-plains of the Punjab, as the women harvest the crops of wheat which go to feed the millions of North India and also the people of England, singers and dhol drummers are hired, so that the women may keep pace with the music and get through their task in the quickest possible time. All day long the songs go on: primitive Punjabi folk-tunes, and in some Christian villages the Psalms as set to these old tunes by the early missionaries.

So wherever one goes in India one finds music Interwoven with life and playing its part in the culture and business of every day.

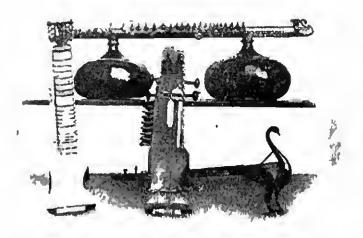
CHAPTER VII

THE MUSICAL INSTRUMENTS OF INDIA

THE mosical jostruments of India present a wonderful variety. As might be expected they are meant mostly for individual use, and there is very little suggestion of on orchestra. The Indian Rajas maintain a oumber of fine musicians. hut it is rare to hear orchestral music io India. however, unknown, and one may sometimes hear orchestral pieces at the concerts of the Gandbarva Mahavidvalava in Bombay and also in Baroda. In order to see all the different musical instruments of India one has to jourooy to many different places. There is a good collection at the Gandharva Mabavidyālaya in Bombay; but the Iodian Museum. Calcutta, has probably the finest collection of both accient and modern instruments. One does not however, as a rule, find them in a band or concert party, os one does in the West, though Baroda is attempting to do this under the guidance of Mr. Fredilis, the Principal of the Music School and an accomplished western musician. greatest variety is found in stringed instruments and in instruments of percussion. Probably India excels most other countries in these two. The following quotation from the monumental work by Captain Day on The Musical Instruments of Southern India will give a good idea of the condition of things when he wrote fifty years ago :-

'Most of the early musical instruments remain still in use. Since the time of the Muhammadan invasion, about a thousand years ago, same Arabian and Persian instruments have been adopted, and have been almost naturalized; but their use has never become universal, and is mostly confined to the North of India or to Mussulman musicians.

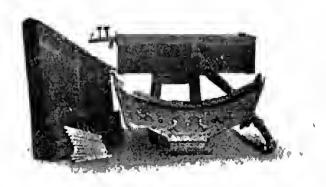
'The people of India bave always been conservative in their tastes, and in nothing do we find this more evident than in their music and musical instruments. Descriptions of them are found in many of the old Sanskrit (reatises, and show that the forms of the instruments now in use have altered hardly at all during the last two thousand



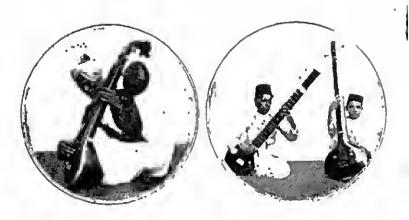
Group of stringed instruments (northern)

Din

Dilruba Sitangi Peacock sitär



Some ancient instruments Svaramandala Brahmā vīnā Kupal Bastran



Viņā



Tambiir



An orchestral sărang!
Playing various stringed instruments

years; old paintings and sculptures, such as those of Ajanta, provethis even more conclusively. There are many musical instruments to he found among the sculptures existing upon various old cavetemples and ancient Buddhist topes and stupas in different parts

of India.

Those at Amravatt and Sanchi are especially interesting. For in the Amravatt sculptures, which were visited by the travettor, Hionen Theaog, and called by him Dhananachoka, about the year 640 of our era, we find several representations of musical lastruments. One of peculiar interest shows a group of eighteen women ploying upon drums, a shell trumpot or sankha, one much like a surnat, and two instruments, apparently quantins, of a shape very similar to the Assyrian harps. But there is another instrument represented that would seem to have been especially popular, but which is never met with in India now, nor can descriptions of it be found in the Sanskrit treatises upon instruments. This again figures in Assyriae and Egyptian sculptures and pulatings. It is somewhet like a barp, and much like an African instrument called Sancho, still used in some parts of that continent.

'This peculiar barp is again found amongst the sculptures at Saachi; where also is seen as instrument resembling the Romen tibae pares. But the tibae pares are there shown without the copie trum or cheek handage, and it is known that this instrument was also used by the Greeks. It is worthy of note that a form of the tibae pares is still common in northern India, where it consists of a pair of flutes. At Saachi too is found a figure of a man blowing a kind of trumpet—the frings—of much the same shape as that only employed in Bengal.

'The materials of which musical instruments are made are for the most part those that are found readiest to hade in the country. Bamboo or some similar cane and large gourds are much employed. These gourds are used for many purposes, and the best are trained in

their growth to the chape for which they are required.

'In thomanufacture of certain Instruments earthenware is employed; the common country blackwood is largely used; in fact, whatever is found by the Instrument makers, that from its natural shape, or the ease with which it can be worked, can be adapted with the least possible trouble to themselves, is readily selzed upon, whether its aconstical properties are suitable or not, purity of tone being eacrificed to appearance. The natural consequence of this is that many instruments are badly put together in the first place; faults in their canstruction are glossed over by outward orna mentation, and from want of proper material, the tone, which should be the first consideration, is frequently sadly deficient in volume and quality.

'The Persians still use an instrument called quankn, much like that of the same name found in India—a kind of dulcimer strung with gut or wire strings, and played upon by plectra fastened to the fingers of the performers. That is a development of the Kattydyana-vind or satafantri (hundred stringod) vind, as it was formerly called. The Persian quankn, the prototype of the mediaeval psaltery, efterwards became the santir, which has strings of wire instead of gut, and is played with two sticks; and in the west it actually took the form of

the dulcimer. Hence the origin of the complicated pianeforto of the present day can thus be traced to the Aryans. And so with many others. The vioile, the flute, the oboe, the guitar, all bave an Eastern origin. One of the earliest of stringed instroments was called "Pinaka," and had one string twanged by the flogers; its invention is ascribed to the god Siva. The vioin bow is claimed by the Hindus to have been invented by Ravana, King of Lanka (Ceylon), who according to tradition lived more than five thousand years ago.

'The oarliest instrument played with a bow was called Rabanastra or Rabanastrana. What this instrument was like is rather doubtful; but at the present time there exists in Coylon a primitive instrument played with a bow, called 'Vinavah', which has two strings of different kinds; one made of a species of flax, and the other of horse-hair, which is the material also of the string of the bow, which with bells attached to it is used as a fiddle stick. The hollow part of this instrument is half a coccannt shell polished, covered with a dried skin of a lizard and perforated below.'

The Vinavah is meetioned in the classical books and the name suggests an iostrument made of bamboo. It is rarely met with except in the haods of strolling musicians, who support themselves by means of it. Whether this is the primitive rabanastra or not it is impossible to say; but it seems extremely probable that, if not absolutely identical, it bears at least a very strong resemblance to it. Another very ancient instrument which resembled the Rabanastra was called Amrita.

Numbers of instruments still in use in India have not altered in the smallest particular their encient forms. The Virid, the Tambiir or Tambiiri-vivid, and the Kinnari still remain just as they are described in the ancient books, oven down to the very details of the carving with which they are adorned, so conservative are the people who are them of all connected with the art they hold to be an ascred.

The peculiar shape of inatroments of the viola and violin tribe appears to have a prototype among Indian instruments; and this can be seen in the Rabdb, which is made with distinct upper, lower and middle bouts, and in a lesser degree in the Sărangi, Sărada, and Chikăra. The rebec once popular in Europe was a form of the rabāh, brought to Spain by the Moors, who in torn had derived it from Persis and Arabia. Here again the Aryan origin is evident, the rabāh being, according to old Sanskrit works, a form of vinā, And it is still popular to the North of India and Afghanistan.

The use of instroments of percussion of definite sonorousness, such as the harmonica, does not seem to have entered into Iodian music at any time nutil quite of late years. But this is rether an open question, for the harmonicon of cups, called Jalatarangini, is by some

ascribed to a very remote origin.

Wied instruments, although perhaps of earlier invention than those with strings, are occurrholess looked upon as of secondary importance. Possibly this may have some reason in the fact that Brahmans are not allowed by their religious laws to ose them, excepting the fluts blowed by the nestrils, and one or two others of the born and trumpet kind. And so men'of low castes are employed as players of wind instruments. But all unite in ascribing to wind instruments a very high antiquity. The conch shell, still used in the daily temple ritual in almost every place in India, is said to have been first used by the god Krishna, and it is meetlened in the great epic of the Rāmāyaṇa, where it is called Devadatta.\footnote{1} We also find it onder the name of Gosringa, both in the Rāmāyaṇa and the Mahābhārata.

The born (spinga) is also said to be of divine origin, and it is mentioned in the earliest writings. But the finte (wuralt) is still beld to be peculiarly sacred, for this flute was the companion of the god Krishna in all his wandurings; and in Indian mythology, this flute is looked upon with much the same veneration that the lyro was by the Greeks, and even by Brahmans it is still occasionally played and blown by the nostrils. In all sculptures and pictores, the god Krishna is represented as standing cross-tegged playing the flute.

Reed instruments, although doubtless of very remote origin, appear to have been invented at a later period than instruments of the note species, and their use is usually confined to either low caste Hindus or Mohammadans. For the Indian reed instruments are mostly harsh and wild, far too powerful and shrill to be used in concert with the delicate vina or sweet tambür, and so their use is chiefly confined to out-of-door performances, where their senod is better heard and where they become fit adjuncts to the band. Instruments with double reeds appear to have been originally brought from India, and the double reed is found in the primitive oboes used there as well as in Persia, Arabia and Egypt. There seems to be ne trace of the single beating reed ever having been known in India, but the single free reed is found in the bagpipe of the country. Indeed the bagpipe would itself seem to have an Eastern origin; and, although its ose in Soothern India and the Deccan is chiefly conficed to a dronebass, yet in the Punjab and Afghanistan pipes are sometimes found containing both drone and chanter. I have heard them played with a dexterity that would do credit to a Highland pipm. The Public now used almost entirely by snake-charmers, is said to bave once been blown by the nostrils and called Nasajantra. - (Captain Day. 99-104.)

Captain Day's remarks on instrument-making are not so applicable to-day as they were when he wrote fifty years ago. There is a constantly increasing demand for musical instruments, and a class of instrument-makers is arising. The centres of this industry are found in Calcutta, Miraj

and Tanjore; and many of the makers are noted for their skill, and the resonant qualities of instruments are being looked to very much more. The public is also taking up with zest the question of musical education, and it is becoming frequent in the better-class families to arrange for their danghters to learn some Indian instrument. All this, with the revived interest in music, will mean, as time goes on, a development of skill in the proper construction of instruments such as Captain Day desires. The Chitpur Road, Calentta, is the centre of instrument-making in Bengal.

Captain Day in his book mentions the bells which are a common feature of festival dances in India, though hardly to be classed as musical instruments. They are usually tied round the ankles of the dancers. They are also used on festival occasions for the bulls. Every post-runner in India has n few attached to his little spear, and these may he heard for a very long distance as the runner

comes along to the village.

I. STRINGED INSTRUMENTS

Apart from the drum the largest variety of musical instruments in India is found among the strings. The best and the most honournhle instruments are also found here. The Viua occupies the first place among them all, and has done so from time immemorial. It is also the instrument par excellence for rendering Indian music; and no one who has not heard the masters of the vina has any right to give a final judgment on Indian music. In northern India the vina is often called Big, the name vina being given to the tamhur. In this book, however, the name vīrā is consistently used for the classical instrument of that name. Three places in India are noted for its manufacture. They are Tanjure and Mysore in South India, and Miraj in Western India. The Tanjore and Mysore makes differ in the wood used fer the bowl. Tanjore uses jackwood and Mysore blackwood. Nearly all Tanjore viņās nra elaborately ornamented by ivory carvings.

The instrument consists of a large pea-shaped bowl

bollowed out of one piece of wood, either jackwood or blackwood. The flat top of this bowl is about one foot in The bridge is placed on the bowl, and near it are a number of small sound-holes. The construction of the bridge is peculiar.

'A weeden are supports a slab of wood, one inch by two and a half inches. A resinal coment is poured upon this and a piece of metal, passing underneath the second, third and fourth etrings, is laid above and manipulated natil the strings produce a clear tone free from all buzz or twang; a wet cloth is then applied, or a little cold water poured over the upper surface, so as to harden the cement. Under the first string a similar piece of metal, in this case of superior quality, either polished steel or beli-metal, is fixed in the same way. This process is considered very important, as the least carelessness affects the tooe of the instrument and gives it a most unpleasant twang,'-(Captain Day,)

The side-string bridge is secured to the main bridge and the helly of the instrument, and is made entirely of metal. It consists of an arc of brass, with a projecting rim upon the side nearest the attachment. The body of the instrument is made of the same kind of wood as the belly, and is hollowed out thin. A projecting ledge of ivory separates the body from the stem. The neck is attached to the hody also with ivory, and is usually curved downward into some weird figure. This also is hollow. Into the hody just beyond the neck is fixed a hollow gourd on the under side, which forms a kind of rest for the vina and is useful also to increase the volume of the sound. gourd ie easily detachable. The frets of the instrument are made of brass or silver, and are secured to two ledges running along each side of the stem of the instrument. These ledges are made of some wax-like substance which can be softened by gentle heat, so that the position of the frets can be changed, if desired. There are altogether twenty-four frets, so that each string contains two complete octaves. Many Indian scholars are of opinion that the ancient hooks give no ground for thinking that any of the old classical musicians used more than twelve frets for the octave on the vina. The tuning-pegs to the main frets are fixed two in each side of the neck, and the stringe pass over the ivory bridge between the neck and the stem.

The three pegs for the side strings are fixed in the side of

the stem just above the gourd.

The vina has seven strings, four of which pass over the frets and constitute the main playing strings, and the other three of which are placed at the side of the fingerboard, and are used to play a kind of drone accompaniment to the melody and to mark the time.

The two thinnest strings, which are on the side nearest the player, are of steel, and the other two main strings are of brass or silver. The three side strings are of steel. Each string has a distinct name, which are, beginning from the thinnest, Sărani, Panchama, Mandaran, Anumandaran. The three side strings are called Pakka-Sāranī, and sometimes Chikari, a name common to all such side strings.

There are various ways of tuning the instrument. The following are said to be those generally accepted, begin-

ning from the playing strings :--

Side Strings. Main Strings.

(a) Sa Pa Sa Sa (C G C C) Pa Sa Pa (G C G.) (b) Pa Sa Pa Pa (G C G₁ G₁) Sa Pa Sa (C G₁ C₁) (c) Ma Sa Pa Sa (F C G₁ C₁) Sa Sa Pa (C¹ C G)

One at Rampur I noted was tuned thus:

(d) Ma Sa Pa Ga (F C G1 E1) Sa Sa Pa or Ni or Sa (C1 C1 G or

(c) Captain Day notes one at Miraj tuned thus: It only had two side strings.

Ma Sa Pa Sa (F C G1, C1), Sa Sa (C C1)

(c) and (d) are the common ways of tuning in upper India.

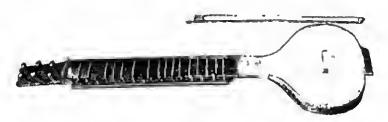
The first two strings are always the ones played upon most, though expert players will use all of them easily.

The frets of the vina are placed in different positions on different instruments. The tendency in South India to-day is to use the intervals of equal temperament. Mr. Ellis mentions testing a vina many years ago in the South and finding the intervals those of equal temperament. Captain Day mentions an old Tanjore vina whose frets were placed at intervals, which were found to he slightly flatter than the notes of the tempered scale.

The viņā may be held either in a horizontal position across the player's knees or else slanting against the shoulder. Different players have different styles. The



Mayüri



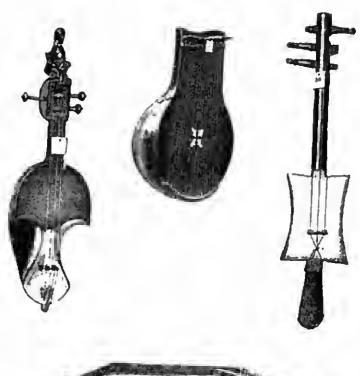
Esrā j



Vinā (Southern)



Ektär Stringed instruments





Särindä.

Kātyāyana-viņā, Kātyāyana-viņā

Chikāra

Some uncommon instruments

pictures in this chapter give specimens of each style. It is played by the right hand, the left hand passing round

the stem and stopping the strings.

The vina is played either with the finger nails or with a The finest players use their finger pails; hut many amateurs, who do not wish to grow the nails long. have taken to the plectrum. In South India it is ouite common to find amateurs playing the vina, and it is becoming increasingly the thing for girls to learn it. the north, however, it is usually only professionals who The instruments for amateurs in the north pre the sitar and the esrai, or dilruha. The main strings of the vina are played with the first three fingers, the fourth finger heing used for the side strings, just striking them at intervals, in time with the talk used. strings are stopped between the frets, but the side strings are always open. The vina lends itself to all the different graces which give so much heauty to Indian music, and in the hands of really capable performers it produces most wonderful and charming effects. It is an Ideal instrument for an Indian girl to learn. It is hoped that more and more the unsuitable harmonium, with its strident tones, will give place to this beautiful Indian instrument, an instrument affording not only delight to player and hearers, but also real culture.

There are different kinds of viņā called after the shape

of the head, such as the Peacock vinā, Rudra viņā.

The Sitär is perhaps the most common instrument in North India. It is not yet found much in the south, but there is little doubt that, as Indian music is cultivated more and more, this simple and heautiful instrument will come very largely into use all over the south. It is well suited either for the nmateur or the professional. It is not difficult for the amateur to learn to play simple melodies upon it, and at the same time it lends itself to all the subtle nrts of the professional, whereby he can show his skill or the charm of the music. The principles of the sitär are the same as those of the vīņā, but there are considerable differences in construction. It is a much smaller instrument and is more easily carried about. Like the

vina it has a belly made of jack or some other resonant whod, but there is no curved neck and no gourd. body of the instrument is about two fent long, and carries the finger-board, which is about three inches wide. The bowl is from eight inches to nne funt in width. The bridge is placed on the bowl, but is ant dauble as in the vīnā. The strings pass over this, and then over another ledge beyond the frets, and again through holes in a ledge near the pegs. These ledges are usually made of ivory. All the strings are over the finger-board. The tuning-pegs are placed, four on the face of the jostrument at the end and three at the side, at varying distances from the end. The number of strings is usually seven. The frets are curved and are made of metal, usually brass, and they are fixed by means of wire strings tied round the body of the instrument. They are movable at the will of the player. It is therefore easy to alter the tune of the sitar nr the size of any particular intervals. The frets vary from sixteen to eighteen in number for about an netave nad n half on each string. The Carnatic sitar is somewhat different. It has a much thinner and shorter neck and is shaped something like a tamhur. Only the first twn strings pass over frets, which are about half an inch wide and raised from the figger-These two strings are placed much nearer board. The fourth and fifth ingether than the other strings. strings gn round a small ivnry bead about half-way up the finger-board, wheoce they pass obliquely under the strings to the tuning pegs. The sixth and seveoth strings pass straight up the finger-board in the usual way. All the strings except the seventh, which is of brass, are of The frets are of wood with an upper edge of metal and are fixed in the finger-board. Usually there are about fourteen frets, which are placed at the intervals of the diatonic scale.

In the ordinary sitar the strings are made of steel and brass. The first, third, fifth, sixth and seventh are nf steel and the other two of brass. Many sitars have a number of sympathetic strings placed beneath the other strings. which are never played, but give a continual hum as the other strings are played.

The tuning of the strings in the ordinary sitār is usually as follows, heginning from the shortest string attached to the side peg:—

Sa Sa Pa Pa Sa Sa Ma (CCG1, GCCP)

The last string is the one usually played on, though expert players will use the last three. This string passes through a small head at its attochment to the helly, so as to nid in tuning to the exact pitch required.

The Carnatic sitar runs thus:

Sa Pa Sa Pa Sa Sa Sa (cgcgcc)

The instrument is played by means of a wire plectrum placed upon the forefinger of the right band, and the strings are struck near the belly. They are stopped by presslog down the fingers of the left hand upon them right above the frets, and not just before the frets as is done on the vina. As a rule, only one string is stopped, the others being used as open strings for the accompanying drone sound.

There is a beautiful sitär in the Gändbarvo Mahävidyälaya In Bombay, which has an ostrich egg for the bowl, beautifully mounted on gold. Some sitärs have peacock-shaped heads and are called Peacock sitärs. The Tarfä sitär has an extra string for the srnti or tonic. The sitär is also

called sundari-the heautiful.

The sitar lends itself well to the performance of Indian music, and is becoming more popular among the people

generally.

The invention of the sitär is commonly credited to the famous singer Amir Khusru of the court of Sultan Ala-u-din in the fourteenth century. It is probably of

Persian origin.

The Ditriba is very much like a sitar, but smaller; and instead of a howl, it has a belly, covered with sheep-parchment. In shope it is something like the sarangī, and like that instrument it is played with o bow made of horse-hair. It has frets similar to the sitar, nineteen in number, which are movable. It has only the four main strings and not the extra three. The dilruba is made, as a rule, with twenty-two sympathetic strings under the main strings.

The arrangement of the tuning pegs is like that of the four main pegs of the sitar, two being vertically on the face and two on the side. The instrument is about three feet long, and the width of the belly will be about six inches. The

bow is about 17 feet lung.

The tuning of the four strings is usually Sa Pa Sa Ma (C1, G1, C F), the last being the principal string. The first two are brass and the last two steel. In this instrument also, the peacock shape occurs for the belly. The dilrubal is not a very common instrument. It is used in the Punjah and in the United Provinces, but as n rule one sees the

sarangi much more frequently.

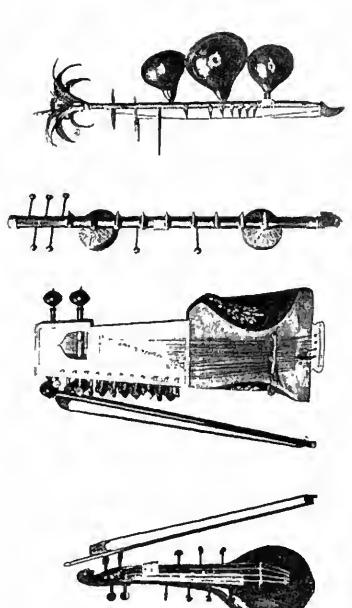
The Surbahār is another instrument of the Sitār kind. It has a similar shape to the sitār, hut the frets are not movable, and it has a finer time and wider range. It is, played with two strokes, one with the plain finger and the other a sort of mandoline tāla stroke with plectrums on the forefinger and little finger. Mr. Fox Strangways gives it the title 'dignified.' This instrument is found only in Bengal. It lends itself very well to the graces of Indian music.

The Saranglis the Indian vinlin. It is shaped, however, something like a small guitar. The instrument is made from one block of wood hollowed out, and it has a parchment-covered belly. It is smaller than the sltar, being as a rule about two feet in height. The sarangi may have either three or four strings, three being gut and one bross. The brass string is the lowest in pitch. The bridge is fixed in the middle of the helly, with a support under the parchment. The instrument is played usually with a bow, but sometimes a plectrum is used. The four tuning-pegs are fixed at each side of the head, which is hollow. The tuning of the four strings is as follows, in accordance with the raga: Sa Pa Sa, Ga or Ma (C G C, E or F)

The sărangî, like the western violin, has its devoteen both among experts and also among the beggar fraternity. It is found throughout the north. The strings are stopped by pressing the finger against their side, and not by placing the finger upon them. This renders it possible to produce all the peculiar gamaka of Ihdian music without any



A NORTH INDIAN SARANGI PLAYER



Strangl Mahati Vini Arosent and modern stringed instruments

Kinnari

Sárangi (Bengal)

difficulty. The sound is mollow and somewhat resembles. that of the viola. It is a very fice instrument, aed expert players can get a tremendous let from it. Even the beggar manages to produce quite a delightful noise with it. It provides a very good accompaniment for singing, and has more fulness of tone than the sitar and also very considerable possibilities of development. It seems hardly possible. however, that it will rival the vielin in the power and beauty of its tone or le its range, but it will always be a good member of ae fudian orchestra, and, like the viola, will come in very useful as a contrast. In the south already the violin has come to stay, and there is not much likelihood of the sarangi displacing it now. It may, however, come to the south as a member of an Indian erchestra. The sarangi usually has, like the other instruments already mentioned, a number of sympathetic strings, from fifteen to twenty-two, under the four maie striegs. The Gandharva Mahavidyalaya has a fine orchestral sarangi which standa seven feet high, and which is meant to he used in the concerts given there, though hitherto it has been mostly ornameetal. (See p. 99.)

The Sareda or Sarrawat is a sarangl played with the plectrum instead of the bow. It has a powerful tone and

is usually much larger than the sărangī.

The Esraj is the Beegal variety of the sarangi. ft ls a little smaller than the latter, and uses all wire strings instead of gut. The tuning is Sa Sa Pa Ma, (C C G F); the Ma string being the chief string. This is the common instrument that oeo finds to-day in the houses of cultured people in Bengal. It is played with a bow like the sărangi.

The Sarinda is another variety of the sarangi, peculiar, to Bengal. The bottom of the instrument is oval instead of rectangular, aed the upper half of the body is left open. It is played in the same way as the sarangi. It usually has an elaborate tailpiece. It has only two thin strings of gut and not four as in the sarangi. ft is used chiefly by jogis and fakirs.

The Chikara is a curiously shaped variety of the sarangi. The body consists of a long hollow piece of wood,

upon which, near the lower end, a parchment covered box is fixed. The bridge is placed upon this. It has three strings of gut or horsehair and five sympathetic strings of wire. The tuning of the three former, which are the main strings, is usually Sa Ma Pa (C F G) or also the same as the sarangi, and that of the sympathetic strings is Pa Dha Ni

Sa RI (G A B C1 D1).

The Tambar is perhaps the most common stringed instrument in India. It is found everywhere and its varieties are numberless. It is made both for the poor and for the rich. Onn sees it in the hands of the pavertystricken beggar, and in the houses of wealthy princes. In shape it is something like the vina, without the extra gourd and without the elaborate headpieco. The howl is usually a large one about ten juches wide, and in the best kinds it is made of wood from the jack tree and hallowed out. The cheaper kinds have a gourd in place of the wooden bowl. The bridge is placed on the howl in the centre and is made either of wood or of ivory. The strings pass through hales in a ledge placed near tha pegs. tuning-pegs of the first and seemed strings are fixed at the side of the neck, and those of the third and fnurth strings at right-angles to the head. The strings are all of metal. three being steel and the lowest one of brass. Little pieces of silk are placed between the bridge and the strings in order to increase the buzzing effect. The strings also have beads near their attachment in order to render perfect tuning easier. The instrument is always played on the open strings by the fingers, without any plectra. strings are novnr stopped. The tuning of the tambur is as follows: Pa Sa Sa Sa (G C C C1). The instrument is held upright with the left hand, and played by gently pulling the four strings, one after the other, from the highest tn the lowest, with the fingers of thn right hand. It pravides a full and resmant draning accompaniment to the melody sung or played, and there is no other instrument which gives so effective a drone as this does. The effect is quite pleasing and the sound made up of the octave and fifth fits in very naturally with the music.

The best tambûr are made at Lucknow and Rămpûr

in the north, and at Tanjore in the snuth; and many of them are most elaborately ornamented with ivory. No

Indian orchestra is complete without the tambur.

There is a variety of the tambur called the Brahmā viņā. This is made like a large box and has no gnurd nr bowl. It is about three and a half feet lnng and six io ches wide and stands nine inches high. There is a raised ledge in the middle, over which the strings run; and it has a fifth string at the side tuned to the higher Sā (c¹). It is used for the same purpose as the tambur.

Sometimes players use the tambūr in quite peculiar ways. I once heard a musician play on it by stopping the strings with a small bamhoo and using it more like the viņā. The full resonance of the tambūr and the buzzing sound gave the melody a very pleasing effect. I also heard a performer play an instrument like the tambūr by stopping it with a coccanut. The name given to this instrument by the penple is Kōṭṭuvādyam ar Bālaśarasvatī. The word koṭṭu is said to mean 'movable fret.' It is found in a few places in South India.

The Sursota is another variety of the tambur found in the north. It has no gourd or bowl and is really a hollow trunk of bamboo. It is about three feet loog and has four

strings tuned similarly to the tambur.

The Kinnari is one of the primitive Indian instrumeots. It is supposed to have been invented by Kinnara, one of the musicians of Indra's heaven, after whom a class of musicians has been named. The instrument to-day is a beggar's instrument only. It is strange that the Bible also mentions a stringed instrument called the Kinnor, and it is possible that these may have had some connection with each other. We find the Kinnari represented on many old Indian sculptures and paintings.

It is made from a piece of bamboo or blackwood, about two and a half feet long, fixed upon three gourds. There are twelve frets made of bone or metal and fixed upon the fingerboard by some resioous substacce. The strings pass into a tall perpendicular peg cear the last of the frets. The tailplece of the instrument is often made to represent the tall of a kite. There are two or three strings, one of which passes over the frets, the others being the drone strings. The drone strings are tuned to the tunic and its fourth or fifth. The musical capacity of the Kinnari is not great, and its sound is very weak and rather twangy.

The Dhenka, found in Madras, is a similar instrument, with two coconnuts as resonators and cowrie shells as frets.

The Ycktar is another very primitive instrument, having, as its name implies (Ek=one, Tar=string), only one string. It is much used by beggars throughout India. It has an open string without eny frets. It is made from a piece of hamboo, to the under side of which a large gourd or hollow cylinder of wood is ottached in the same direction as the bamboo, one end being closed by a piece of parchment. The string passes through a hale in the centre of the parchment. It is about three or four feet loog. This instrument is the heggar's band and gives a twanging accompaniment to his songs. It is seen mostly in North India.

An officer in the Indian army told me of a similar instrument with only one string that he had come across at Manipur on the Assam frontier, which was played with a bow. It was called Penna. The came reminds one of the ancient Pinaka, the stringed instrument of Siva. Many of these instruments are of the violin variety, and lend support to the idea that the violin ic its primitive forms is indigenous to India, and certainly the Sārangī and its different varieties show considerable development towards of finer instrument.

The Rabab is a fine Muhammadan Instrument, with a wide shallow bowl made of wood covered with parchment. It is something like a flottened and shortened sitär, but has no frets. It has four strings, one of brass and two of gut, with sympathetic metal strings at the side. Sometimes the two upper strings are doubled. All the six strings may he of gut. The iostrument is played with a bow of horsehair.

The strings are tuned in one of the following ways:

Sa Pa Ma Sa (c' G F C) or Sa Sa Pa Pa Ma Sa (c' c' G G F C) or Sa Sa Pa Sa Ga (c C G₁ C₁ E). Sometimes it has a few catgut frets placed at diatonic intervals. The

instrument is found in the Punjah and in Afghanistan, but one rarely sees it to-day. One of the few expert players still in India is in the Rampur State. The great Tan Sen played this instrument. It is a handsome justrument and has a very pleasing tone, somewhat fuller than that of the Saraings. It lends itself to the graces better than the sitar.

as it has no frets.

The Sar-Śringara is the modern descendant of the rabab. It was first made by Sved Kath Ali Khan Bahadur, the late Nawah of Rampur. It is a little longer than the rabab, and the finger-beard below the strings is made of metal so that the fingers can easily slide over it. It has a double belly of wood, instead of parchment, as in the rabab, and is played in the same way as the latter. There are eight strings tuned as follows :- Sa Sa Pa Sa Ga Sa RI Pa (C CG1 C1 E1 C DG). The tuning of the seventh and eighth strings varios according to the raga. The first two or three only are used for playing on, and the others are used as the side strings of the vina. It often has a number of sympathetic strings placed underneath, tuned to the intervals of the raga which is being played. Its tone is rich and mellow.

The Sparamandala is the ancient Indian dulcimer. It is said to be the same as the Kātyāvana-vīnā, which was invented by the rishi Katyayana, and was also called the Sata-tauter-vinā, because it had originally hundred strings. Kallinatha, the commentator of Rainakara, says that the Mattakokila-vīnā, mentioned by Sārngadeva, is really the svaramandala. The svaramandala is generally made of jackwood and is three feet in length, one and a half feet in breadth and seven inches in height, and it stands on four I legs like a piano. Wire strings are used and are attached to round pieces of wood shaped like small chess-pods. The tuning pins are made of wood and are tuned with a key in a similar manner to the pianoferte, that is in semitones,

There are two methods of playing the svaramandala; one, with a mizrah and a shell, the other with two sticks like a xylophone. In the former method, it is played with two plectrums worn upon the first and second fingers of the performer's right hand, while the little finger plays the accompaniment. In the left hand is held a shell which is moved to and fro upon the strings, by which means all Indian musical embellishments can be rendered with great taste and fineness. In the latter method, it is played with two felt-covered sticks and the sound is decidedly like

that of a piano." 1

This instrument is the forefather of the modern piano. which is oothing more than an enlarged svaramandala in which the strings are struck by mechanical hammers. This instrument, which M. Fredalis calls 'a grand old instrument, who e sweet tones touch the very chords of the heart,' is now forgotten and unused except in a very few Its modern representative is the Qanan or Arramin, the Indian dulcimer, which is of Persian origin and has only thirty-seven strings, containing three octaves. Some of them are of hrass and some of steel. The strings are tuned differently for each ragu, so as to reproduce the proper intervals of that raga, and are always played with plectra. Instead of the shell in the left hand, the performer to-day has a small iron ring, with which he produces the various graces. One hearer likened the tone of this instrument to that of an old clavichord.

The Taush or Mayari is the peacock fiddle. It is very similar to the sitar and is really a kind of dilruba,

It takes its names from the peacock-like resonator.

The Indian Museum, Calcutta, has an interesting collection of primitive stringed instruments cootaining many others in addition to those given above. None of these primitive instruments are in use to-day, but they are interesting as showing how the present-day stringed instruments developed. The first instrument was the bow with its twanging string, said to be still used on certain occosions by the Nairs of Travancore. Then a number of strings of different lengths were fastened to the same bow. It was then found that by stretching these strings over a hollow hody the sound was increased. We find a Burmese instrument with the strings stretched over o hollow body shaped like a boat. One of these specimens has the

^{. 1} From an article by M. Fredalis in Times of India, Bombay.

fourtoon catgut strings morely tied round the bow, so that it would be most difficult to retune thom. A later instrument has dovoloped the tuning peg, fitting io to a small hole in the bow. Anothor type is represented in the Gabgūki and Ananda lahari from the Dekkan. Here the tambouringlike resonator is held under the right arm, and the left haod holds the strings tight, while the fingers of the right hand twang them. Tho next instrument has a number of thin bamboo rods, which allow the string to be tightened or slackoood, and also a tuning peg. This comes from Chota Nagpur and is called Nandin or Gopichand. A further dovelopmost in the Thanthona from Tanjore shows a round stick fixed in the bollow walls of the cylinder. and carrying two tuning pogs. The Tsaung from Burma shows another kind of resonator in a hollow piece of bamboo. The strings are parrow strips of bark, carefully sliced off in such a way that the two ends remain attached. They are tightened by pushing a small piece of wood beneath them, and are struck with a plectrum in the right hand. In the middle of the flattened side of the bamboo. there is a rectangular bolo covered with a small board of similar shape. This board the playor boats with his left thumb, and thus obtains a kind of drum accompaniment. This instrument is still used by the primitive tribes of the Malay Peninsula. Next we see the development of tho viņā. Here the strings are stretched over a finger-board and kept tight by pogs. This finger-board rests on two or three bollow bodies and the strings are supported on frets. The Kinnar is one of the more primitive instruments of this group 1.

WIND INSTRUMENTS

It was soon found that stringed instruments were too weak for open air work, and so for this purpose wind instruments came into existence at a very early date. The oldest of all these was probably the buffalo born.

¹ See Guide to Musical Instruments exhibited in the Indian Museum, pp. 4-6.

a specimeo of which may be seen to the Indian Museum. and which is still in use in South Iodia. It was not loog before the brass horn came ioto use. Two parts of India. Madras and Nepal, are noted for their brass horos. Practically all those io the Indian Museum came from one or other of these provinces. The name in the north is Śringa, Komiki, Kalahay; ond in the south Kombu. which is the Tamil word for 'horn.' These horos are used for signals, processions and festivals. In the south it is often made of several brass pieces, fitting into one another for the sake of portability. It usually has a curved shape, and is about four to six feet in length. It curves in two cootrary curves, something like the old curved coach horn. Io the south it is only played by the low castes, probably rominiscent of the time when it was always made of horn. It is quite possible to get a large number of ootes from it and shrill wavering cadeoces. I have never heard a melody played upon it. A speciality of Nepal are the snake-shaped horos, with a serpent's or tiger's head as an orifice.

The Conch Shell or Sankhu is also a very ancient wind instrument and is held very sacred. It is the precursor of the trumpet. One hears of it in all the ancient literature of India, as being used both for warlike and for sacred purposes. To-day it is used a great deal by beggars and in the temples to make a sound which has only occasionally some of the merits of music. It hardly, however, comes under the head of musical instruments. In the temple ritual it either gives an opening fanfare,

or plays a sort of rythmical accompaniment.

The Read Flute, Vanisa of the ancient books, or Bānsurī, is one of the commonest instruments to the musical traditions of Iodia. It is also called the Murali or Fillagorī. It is always associated with Krishna, and he is usually represented standing on one leg and playing it. This was the instrument with which Krishna charmed the gopis of Brindāban. It has various names and forms, and more or less resembles the English flute. It is made from bamhoo hollowed out, or else from a hollow piece of metal, and has the usual sound holes. The player hlows down

the stem and stops the holes as he desires. The Min. another variety, is bored cylindrically and is a regular

pastoral instrument.

Mr. Fox Strangways gives a number of flute scales which he found in different parts of India. Many of the intervals were most curious and there was only one which approached the western scale in its intervals. Some of the intervals are quarter tones and some quite strange to our regular tones. One scale ran as follows :-

5 5 5 CDFFGABC

The fluto is still used to a slight extent both by shepherds and by professional musicians, but it has very largely given way to the reed instruments.

The Algosa is a kind of flageolet and has the seven

notes of the gamut.

The Kā-sharati is a flute used in the Khāsi Hills, and the Basuli one used in Nepal for weddings and dances.

The Nagasara or Nagasuram is the common reed instrument of India. It is found from north to south, and no wedding procession is complete without it. This instrument is from two to two and a half feet long, and is conical in shape, enlarging downwards. It may be made either of wood or of metal. In the north wood is commonly used, and in the south the best instruments are made of silver. It is pierced with twelve holes, seven of which are used in fingering, the remainder regulating the pitch. Expert players can produce any intervals by only partially covering the available holes. The better instruments, particularly those of silver, have a very fine tone and, heard in the open air, are very attractive. The nagasara performers are often exceedingly expert and are able to produce all the various graces for which Indian music is famous. The melody is clear, interweaved with countless variations. A good nagasara player is in great request and makes a very good living.

The Ninkairna is a kind of small nagasara. It is similar in shape and has the same number of holes. It is

a very shrill instrument.

The Drone or Pohgi is an instrument shaped very much like the nagasara and about the same size, except that the conical arrangement is a little larger. Only one note is produced which is called the Sruti, that is the keynote or drone to the melody. The instrument has four or five holes, so that the performer can vary the pitch of the note. It is usually played in combination with either the nagasara or the ninkairna or with both.

The Nesbug, or Sruti Upanga or Bhajana Sruti, is another instrument used almost exclusively for the drone. This is the Indian happipe. The hag is made of a kid's skin and is inflated from the mouth. The mouth pieces, of which there are usually two, are of cane, one heing smaller than the other. One is used to inflate the bag, and one for playing the drone note. There is usually a little piece of wire or silk tied round the tongue, in order the botter to

control the sound.

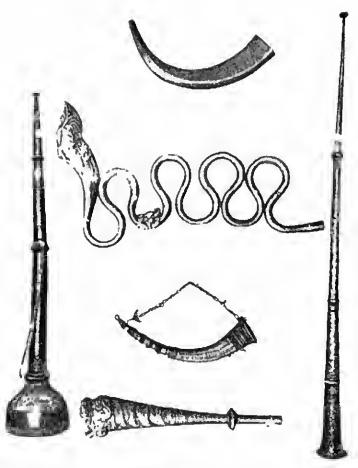
The Punji, or Jinjivi or Tombi, is the instrument heloved of jugglers and snake-charmers. The body and mouthpiece are formed from a hottle-shaped gourd, in which are inserted two cane pipes, the interior ends of which are cut so as to form reeds. One of the pipes is piercod with finger holes so that it can be played upon, the other being sounded on the tonic as a dronc. The Punji is constructed in the scale of Bhairavi (Southern-Hanumatodi) and is played in the Nagavarali raga, which is supposed to be peculiarly pleasing to serpents.

An instrument something like this, but having five to nine different reeds inserted into a gourd, is shown in the Indian Museum. The pitch is determined by the length of the reed. This instrument is made on the principle of the organ. It is found among the Assam hill tribes, and it is said that a somewhat similar instrument is found in China.

The Nallatarang is a pipe instrument, made on the principle of the organ with nineteen pipes. It is played with a hellows, and each pipe is opened by a small key attached to a primitive keyboard.

There are a number of trumpets found in India. The most important of these are the following:—

The Kuma is a straight trompet of hrass, and is



Trumpet.

Buffalo horn, Snake-shaped horn, Koinbu, Horn with tiger's head,

Some wind instruments

Trumpet.



Group of drums

Pot-drum Dholak

Tomtom

Nagara Tabla Pair Damaiu

Dhol Mgalanga



Bastran (Burmese)

considered very sacred, even Brāhmans being permitted to play it.

The Taturi or Turahi is a curved trumpet of brass, like a bugle with one turn. Both this and the Kuma are

used in religious processions.

The Sanai is a trumpet made from Sisavi wood. It is about one foot loog and has seven holes. The player blows straight down the stem.

The Karana is a bigger sanai. The former is used for

the two upper registers and the latter for the lower one.

The Nafari is a small straight trumpet.

The Jalataraing and Kastaraing, though not wind instruments, may come in nt this point. The former consists of a number of cups containing varying quantities of water. It is played by dipping the fingers in the water and rubbing them around the rims of the cups. It gives eighteen notes in two octaves. The Kastaraing is a similar instrument, but no water is placed in the cups which are of different sizes instead. The cups may also be beaten with sticks.

The Kural is the panpipo of the shepherds. It consists of a number of hollow reeds or bamboos of different lengths. Its range is extremely limited and the scales use many different kinds of intervals. It is interesting to listen to its shrill tones, with their strange intervals, in the depths of night as the shepherd watches the flocks. I once heard one playing the following notes:—Pd PP, GMPd PP

(GDGGG, EFGDGG.)

INSTRUMENTS OF PERCUSSION

Among these, drums take the first rank. As we have already seen, the drum is one of the most important of India's musical instruments. It provides the tonic to which all the other instruments must be tuned. It is a royal instrument baying the right of royal honours. The types of drum used in India are almost innumerable, and it is impossible to give a description of many of them in this book. We can only pick out the most important and describe those. In the Indian Museum, Calcutta, there

are altogether 287 different varieties of Indian drums exhibited.

The Mridainga or Mardala is the most common and probably the most ancieot of Indian drums. It is said to hove been invented by Brahma to serve as an accompaniment to the dance of Siva, in honour of his victory over the three cities; and Ganesa, the son of Siva, is said to have been the first one to ploy upon it. The word mridginga or mardala means 'made of clay', and probably therefore its body was originally of mud. Large earthern pots are used even to-day by Indian drummers. struck upon the bottom and sometimes a piece of parchment is stretched across the mouth. It is quite a pleasing instrument. There is, however, to-day no clay in the composition of the ordinary mridanga. The myidanga is a harrel-shaped drum about two feet long, with a girth of about three feet io the centre. Tho two eods have a diameter of about oine ioches each. Slight voriations from these dimensions may occur in different mridainga. The shope of the mridainga remiods one of two bottomless flower pots joined at the rims. The shell of the drum is now mode of wood, ond is slightly lorger at one eod than at the other. The two beads are covered with parchment, which is tightened or loosened by leather braces enclosing small cylindrical blocks of wood, which are either pushed nearer to or further from the bead which is being tuned. As the straio oo the braces is increased or decreased, so the parchment head is stretched or loosened, and the pitch raised or lowered as desired. On one of these two heads is worked a mixture of manganese dust, boiled rice and tamarind juice, in order to increase the pitch of the oote. This appears as a black circle, slightly raised to the centre about one-eighth of an inch. It is a permanent fixture on the drum, and the bare parchiment is only left for a very small width oround it. The note of this head is Sa and it is played with the fingers of the right hand, which strike it either at the edge or in the centre. The other side of the mridainga is left bare, but on every occasioo when it is used, a mixture of boiled rice, water and ashes is put in the ceotre. This helps to give the dull

sound Panchama. It must be carefully washed off every time after it is used. This head is played with the left hand.

The Tabla is found in the north and centre of India, where it takes the place of the mridanga. Instead of being one drum with two heads, it is two drums, the two heads heing one on each of the two. They are each slightly smaller in size than the mridanga, and one of them looks like a mridanga cut in half. The shape of the tabla has been described as a great tea-cup and coffee-cup respectively'. One of the drums is sometimes made of copper and the other of wood, or both may be of wood. Both of them have tuning blocks and braces like the mridanga, or they may have iroo screws which work up iron threads. Both heads of the tabla have upon them a permanent mixture. On the left hand drum it is worked on slightly to one side and for about two inches in diameter. On the other head it is the same as upon the right head of the mridanga. The smaller tabla is sometimes called Bahva. though this is really a small wooden kettle drum of similar shape. Both the mridanga and tabla are essentially concert drums and lead themselves to all kinds of drumming finesse. The mridanga is used mostly in the south of India, though it is also found in the north. The tabla is rarely found further south thao Bangalore.

The Pakhawaj is a drum slightly larger than the mridanga but similar io shape, which is used in the oorth

of India.

The Nagara, or Bheri or Nakkara, is a large kettle drum, used very largely for war-like and religious ceremooies. It is called Dundubhi in the ancient literature. The shell is made of copper, brass or sheet-iron rivetted togethor. The heads are made of skin and are stretched upon hoops of metal. The head may be anything from two to three feet in diameter. It is beaten with two curved sticks.

The Mahanagara or Nahabet is a very large drum of this sort used in waodering theatrical troupes, or by the great Muhammadao oobles in their ceremonies. It is sometimes five feet in diameter.

The Karadsamila is another form of this drum used in Lingāyat temples. It is slightly larger and the shell is coolcal, with the apex flatteeed. The head of this drum is braced by leather thougs round the shell. The skin is often put on when wet and then shrunk lote its place.

The Dhol is the wedding drum of Indin. It is cylindrical in shape and about twenty ioches long and twelve inches in diameter. It is made of wood bored out of the solid. The heads are made of skin and are stretched by hoops fastened to the shell and strained by interlaced thongs of leather bound round the shell. A baod of leather passes round the shell in the middle and serves to tighten up the iostrument to the desired pitch. A mixture of boiled rice and wood ash is often applied to the eods of the dhol to give more resonance. This drum is played either by hand or with sticks. Sometimes both are used. If hy hand, it is struck by the palm. The sound is a hollow bang with very little music in it, and there is no possibility of drumming finesse, as there is with the mridanga. The dhol is often used in temples at ceremonies and festivals.

The Dholki, Dholak and Dak are smaller and larger kinds of dhol respectively. The former is used by the

Dekkan women.

The Damaru, Nidukku, Udukku or Budbudaka is a peculiar drum, shaped like an hour-glass. A small stick or a piece of lead or a pea is attached to a string, which is wound round the middle. It is held in the right hand, so that the squeeze of the fingers tightens the braces and sharpens the tone a little within a sixth. The stick or piece of lead or pea strikes on the drum heads alternately, as the holder turns the drum this way and that. This drum is said to have been used by Siva. To-day, however, it is the possession of beggars and sankecharmers and their ilk.

The Edaka or Dudi is a metal drum of this same shape and size used in Coorg. One end of it is beaten by n drumstick and one by hand. In Malabar a drum of this sort is made from a gourd. When four or five of them are beaten together at a religious service the noise is prodigious. They have practically no mosical value.

The Karadivadya is a large-sized variety of the same kind of drum, which is beaten with a padded drum stick.

The Udupe is a gohiet shaped drum used by the

Lingavats of Mysore in their religious ceremocies.

In addition to these, there are the various Tomtoms. both large and small, used throughout India, particularly for proclamations of Government orders and sales and so oc. They are beaten with small wooden sticks.

Various kinds of tambourices are used. There is the circular Thambatti of South India, the large Damphu of Nepal, and the little Khanjeri of Madras, the latter very much like the western tambourine. There are also some known by the very appropriate name of Dindimi.

Various kieds of cymbals are also in use. There are the simple kind made of brass, copper or bronze, called Kaitala or Jaira or Manjiva. One of them is held tightly ie the left hand and the other loosely in the right. The time is expressed with many modulations of tone and varieties of beat. They are by no means easy to play, and experts produce with them most intricate and delicate movemeets, all ic perfect harmony with the time of the music.

There are also large cymbals called Jhartgha which

are used especially in temples.

There is a peculiar kind of metal cymbal used in Bundelkand. It is called Chintla and consists of two flat pieces of iron two feet loog with pointed ends, held together nt the other eed by a ring of iron having a few smaller rings attached to it. The two pointed ends are beaten together, and the rings are also struck on to the iron in time with the beats.

Various kinds of castinets are used throughout India.

The Kustar or Chittika consist of two pieces of hard wood about six icches in length, flat on one side and rounded on the other. Clusters of bells on small pieces of metal are placed at the ends, and these make a musical jingle whee the Kustar is shaken. A ring is usually inserted at the back of each for the fieger to pass through. They are held in the one hand, and the flat surfaces are beaten together by alternately closing and opening the fingers.

The Kariāl are large Kustar with two pairs of cymbals and holes in the wood for the fingers to pass through so as

to grip the instrument.

Chakra are circular wooden castinets made with slightly concave surfaces. They are also called Khattala. Another strange form of percussion instrument which still lingers in Burma is the Bastran. It is a kind of boatshaped melodion, with twenty-five bamboos of different lengths for the note keys.

CHAPTER VIII

INDIAN AND WESTERN MUSIC

CAPTAIN DAY, whose example might well be followed by other military men in India, says:—

'Almost every traveller in Iedia comes ewey with the idea that the music of the country consists of mere noise and ussal drawling of the most repulsive kind, often accompanied by contertions god gestures of the most ludicrous description. But in certalely two-thirds of such cases, the singing and dancing witoessed has been of the commenest. and the performers of the most shandened and deprayed of the city; and the traveller has therefore received a false impression, which may abide through life, or impede the progress of a more correct apprecintion of the real valor of Indian music. But it is hardly fair that an art so little really understood, even emeng the catives of India themselves, should be judged by such a criterion and then put aside as worthless, because solitary individuals bave been deceived by parties of outcast charlatans whose object is mere gain. For that Indian music is an art, and a very intricate and difficult one too, can bardly be denied. But to appreciate it one must first put away all thought of European mosic and then judge of it by an Indian standard. and impartially upon its own merits; of the ingenuity of the performer, the peculiar rhythm of the music, the extraordinary scales used, the recitatives, the amount of imitation, the wonderful execution and , memory of the performer, and his skill in employing small intervals as Then whoo we hear old slokas and ghazals, songs written hundrods of years ago, enog with the same sweet dreamy cadences, the same wild melody, to the same soft beats of little bands, and the same soft timble of the eilver cymbals, we shall perhaps begin to feel that moste of this kind can be as welcome and tasteful to ears occustomed to it as the music of the West, with its exaggerated sonorousness, is to us; and so our costempt will gradually give way to wonder, and upon acquaintance possibly to love. For this music, let os romember, deily gives pleasore to as many thousands as its mere cultivated European sister gives to hundreds. There is hardly any festivity in Iodia lo which some part is not assigned to music, and for religious ceremonles its ose le universal.'.

In judging of Indian music one most equire whether it contains those musical qualities which ensure an artistic appreciation from the cultured. When discussing this matter with an acquaintance once he said to me, 'There ought to be something in all good music which any cultured ear and mind can artistically appreciate.' He was of courso referring to the best examples of either western or eastern music and to cultured minds on both sides of the The question naturally arises bere as to whether it is possible for any one to appreciate the music of the other side without some special education of the musical faculty. We know how difficult it is for people who have had no musical education at all to appreciate classical music in the west, and we know too that all classes can be educated to appreciate it. It is a fact that many musical artists of the west have revealed a very keen appreciation of Indian music, and some of them have learnt to use it with real distinction. Some may think that this is a rare occurrence, and not a possibility for every-one who has a soul for music. This book should at any rate reveal the fact that Indian music, whether fully developed or not, is at least founded on sound musical principles, and that it does contain possibilities of appreciation by all truly musical people.

There are many reasons which prevent people from giving that appreciation to the music of the other people which it merits. There are some to whom the music of the other is simply a noise more or less disagreeable, or perhaps 'the least disagreeable of noises.' There are some who like Aurangzeb would have Indian music buried so deep that 'neither voice our echo shall issue from the grave.' Various causes may conduce to this lack of appreciation. A writer in the Madras Mail sometime ago

gave expression to one of these. He wrote:

'I own that Indian music, though it interests me, does not appeal to me in the least I have tried again and again to catch some comprehensive idea and grasp a beginning or an ending, to discover whether the music is pathetic or sublime, erotic or religious, and I have never yet succeeded.'

He goes on to say with impartial fairness:

^{&#}x27;The conclusion to be drawn is not that the art is inferior or that it does not exist. It is the ears of our musical understanding which are deaf to those sounds, which have so powerful as effect upon our neighbours.'

Thore are also those who are ropelled by the grotesquo exhibitions, which so often accompany the rendering of Iudian music even by some of the best artists, though this is not a trait which is altogethor confined to Indian artists. I remember a story which will illustrate this point very well, and which incidentally shows that cultured Indians as well find them grotesque. A foolish shepherd become suddenly rich, and one day a musician camo and sang before him, shaking his head, eyes and hands in time with the music as he did so, and making the most grotesque faces. The shepherd not having seen that kind of thing before thought that he had fits and took him inside and had him branded. The musician was glad to got away. Still he weot on with his art, and one day, when singing before a king, the king was so pleased that he went away to get him a valuable present. The musician thinking of his former experience ran off. Then the king sont to his house and asked what was the matter, and was informed of the treatment he had formerly received. The king replied, 'A fool may acquire riches, but does not therefore become seesible." Another story on the same theme tells of a musician singing before o shepherd, with similar strange gestures. shepherd wept copiously all the time. The musician, being unable to understand the cause of his weeping, stopped and asked him why he was wooping. The shepherd soid, Last night one of my sheep had the same disease and swelled up and died. When I think that you too will die in four watches, it makes me sad to think of one so young suffering from such o dire disease.' This story shows that it is not only the European who can look upon these things with a sense of humour. To allow this kind of thing to prevent our appreciation of the music is to lose the substance because of its covering. One may hope that it will not be long hefore in India itself these grotesque contertious will be condemned as bad form by the best people.

Then, as Captain Day says, there are many who condemn Indian music without having made any genuine attempt to understand or appreciate it. They take all their ideas of it from the indifferent barber's baod, or the wandering troups with its noisy instruments. They are excased

in their prejudice, which forms a tough skin ond provents them from feeling any sense of the heauty ond charm of the music. One can only hope that some day they will wake up to the fact that prejudice is farthest removed from discrimination, and that it has resulted not only in their loss but also in a loss to all, inasmuch as it has hampered a real appreciation of things Eastern. Strange though it may appear, there are many Indians who feel just the same about western music. An Indian gentleman in Lahore remarked to me that western music to him was like 'the howling of a jackal in a desert.' One is glad to know that there are to-day an increasing number of both westerners and easterners who are learning to appreciate the charm and the art of the music of the other.

It would be well now to gather together some of the important distinctions between Iodian and western muslc.

The dominant factor in Iodian music is melody. while that of western music is harmony. In the one cash notes are related to definite notes of a raga, and in the other case to varying chords. Indian melody is produced by the regulated succession of concordant notes, while western barmony arises from the agreeable coocord of various related notes. As a result of this differentiation. Indian music has developed solely along the lines of melody, while the greatest development of western music has taken place io the region of harmony. Does the fact that western music has developed a second dimension, so to speak, make it more advanced than Indian music? Cnn we call Indian music thereby inferior or primitive? Indian music has taken one line of development, that of melody; and, in order to add to its charm and variety, has developed every phase of it, including time-measure, in ways that have never occurred to the westero miod. These are two lines of development. and perhaps one has travelled as far olong its lice, as the other upon its line. There has been far more development io Indiao music, than even many Iodion musicians wern aware of : as until receotly there was oo opportunity for the different lines of development to converge or to co-operate with each other, owing to the enormous distances, the

absence of the habit of wide travel, and the lack of facilities for intercommunication. However, things are rapidly chaoging, and to-day we have a permanent all-India orgaolsation, which will undoubtedly gather together the scattered lines of development and bring them to bear upon Indian music as a whole. It is only recently that musical associations have been formed in India, and that music lovers have had opportunity to get together and compare their work. All this must be remembered in judging the progress that has been made by Indian music. Another thing that has greatly hampered this progress has been the absence of an adequate and universal system of notation. This too Is being remedied, and it will be possible soon to judge the relative progress of western and Indian systems of music on a basis of equality.

2. Then again, Indian melody is cast in one definite mood throughout, and both time and tune are wrought into one homogeneous whole. Variations are not allowed to alter that mood, which persists with the raga. The balance of the music is obtained partly by time-variations and partly by grace. 'In western music mood is used to articulate the halance of the whole piece.' The particular times for singing the different ragas, the raga pictures and the emotions associated with them all fit into this idea of the

Indian melody.

3. Theo again, and perhaps most important of all, in Indian music the salient notes are fixed by long association and tradition, and any alteration of such saliency is not as a rule possible in a melody. The relation of the individual notes to one another is settled by ancient tradition. In western music, on the other hand, the salient notes are made by the momentary impulse of the harmony or of the counterpoint, and it is the cluster of notes rather than the individual note which has special value.

'In Indian musin the notes stand out frum each other as clearly

as do the faces of our friends in our mind."

^{&#}x27;In Indian music the notes are members of a form already supplied by tradition, and the newpess is created by their arrangement and graces, while in western music they create new forms as the music proceeds.'

4. Further in Indian composition the melody is dependent upon the relation to certain fixed notes which vary according to the raga. It sets no store by any progress through notes which suggest harmony, whereas western melodies tend to circle round the notes which are harmonically related to the tonic. As a result imitation at different levels, so common in western music, is very rarely found in Indian music, and the two tetrachords are seldem identical in the character of their constituents.

5. As we have seen Indian music lays great stress on grace-gamaka—'curves of sound.' These are not mere accidental ornaments as in western music, but essential

parts of the melodic structure.

6. The use of microtones in Indian music and the general absence of the tempered scale gives a very distinct flavour to it. To those whose ears have always been tuned to certain fixed intervals, this occurrence of quite different intervals, some of them most strange to western ears, alters the whole feeling of the music. Mrs. Mann says, 'Western music is music without microtones, as Indian music is music without harmony.'

7. We have already noticed the difference in timemeasures and this is accountable to a very considerable extent for the strangeness of Indian music to so many. Varieties of duration do not come naturally to ears which

are habituated to varieties of accent. 1

8. Another difference that has a great deal to do with our appreciation or otherwise of music, is the matter of emphasis upon certain external qualities. Western music rightly has come to lay very great emphasis upon tone and timbre, whereas Indian music passes these by on the other side and gives all attention to execution and accuracy. The melody is not determined by canons of charm or pleasure, but by adherence to certain fixed standards; and the quality of tone in which the melody is sung or played does not have the importance that it does in the west. The Indian singer is first a musician and secondly

a voice-producer. He is not singing from some set piece, but extemporizing according to some definite rule, which almost unconsciously models the form of his song. ' This accounts for the frequent occurrence even in the best songs of difficult sol-fa passagos which have no musical beauty whatever. A short time ago while talking with an lodiac musical friend about a cortain singer, I said, 'He has not got a very good voice.' 'Oh,' said my friend, 'That is nothing. The great thing is for him to sing correctly and skilfully. The tone does not matter at all. ' Io a note in the Advar Bulletin, Madras, somowhot recently, Mr. Tagore, in discussing the sigging of an Indian lady, who had recolved training in Europe, said that in Iodia any finesse in singing is rogarded with contempt, no trouble being taken to make oither voice or manner attractive. He goes on: 'They are not ashamed if their gestores are violent, their top notes cracked, and their bass notes unnatural. They take it to be their sole function to display their perfect mastery over all the intricacies of times and tunes, forms and formalities of the classic

A commentator adds, 'In Europo we liston for the tono, the sweetness of the voice, of the iostrument. In India they listen only for the tune—the melody and the rhythm.' It must, however, be added that to-day many Indian music-lovers are coming to realize the importance of tooe, and are placing very much greater emphasis

upon it.

traditioos."

One thing which often deproses the western listener is the barsh nasal tone of the Indian singer. It is interesting to find that, while many Indians are trying to get away from it, the nasal tone still has its defenders. Mrs. Mann says that it is a degraded form of a very fine tradition, to the effect that the yogi could obtain the power to go on singing without broathing, and it is the desire to attain to this power which is responsible for the cultivation of the habit of singing at the back of the cose.

Sir Rabio dranath Tagore goes down to the fundamental causes of the difference between the music of East and

Wost:

^{&#}x27;At first, I must admit your Western music jarred upon me. I heard Madame Albani siog a soog in which there was an imitation of

the nightiogale. It was so childishly imitative of the mere externals

of nature that I could take little pleasure in it.'

And what food for musical inspiration would a Hindu find to the song of the nightingaie?' asked the questioner. 'He woold find the soul-state of the listener; he would make music in the same way that Keats wrote his ode, It seems to me that Indian music concerne itself mure with human experience as interpreted by religioo, than with experience io an everyday sense. For ne, music has above all a transcendental eignificanco. It disengages the epiritual from the happenings of life; it singe of the relationship of the human coul with the soul of things beyond. The world by day is like European mosic; a flowing concourse of vast harmony, composed of concord and discord and many disconnected fragments. And the night world is our Indian music; one pure, deep and tender raga. They both stir us, yet the two are contradictory in spirit. But that cannot be helped. At the very root nature is divided into two day and night, unity and variety, finite and infinite. We men of India live in the realm of night; we are overpowered by the sense of the One and Infinite. Our music drawe the listener away beyond the limits of everyday human joys and sorrows, and takes us to that lonely region of renunciation which lies at the root of the universo, while European music leads us a variegated dance through the codiess rise and fail of buman grief and joy."

- On the same subject Mr. Fox Strangways says:

'One shows a rejection of what is transient, a soherness in gainty, sedurance in sorrow, a search after the spiritual ideals of life. The other shows o vivid insight, an eager quest after wayside beauty and the dexterous touch that turns it to account. The one seems to say, 'Life is pazzling, its claims are many, but we will hammer out a solution, out by turning away from ugliness, but by compelling it to serve the ends of beauty.' The other, 'Life is simple and beauty close at hand at every moment, wherever we go; the mistake is in ourselves if we do not train our eyes and care and hearts to find it.' (F.S. pp. 339, 340).

Mrs. Mann says in the same strain:

'While western music epeaks of the wonders of God's creatioo, eastern music hlute at the ioner beauty of the Divine in man and in the world. Indian music requires of its hearers something of that mood of divice discostent, of yearning for the infinite and impossible.'

Annther writer remarks:

'An Indian bacquet with its vast variety of dishes of every taste and savour, is bewildering to the European who enjoys eating one thing at a time, with his whole gastric soul concentrated un it. Similarly the Europeac's multiplicity of sounds in multiplicity the Europeac's multiplicity of sounds in multiplicity the Indian, who likes to elaborate one particular meledy to what seems to the western tedioos leegthe.' (I.S.R., Sept. 21,1920.)

One can only say further that it is not impossible for every one who has an ear and heart for musical beauty to learn to appreciate the charm of Indian music and in some measure to understand it; and that this attitude is far more productive of joy to noneself and to others, than the more common attitude of insular prejudice which refuses to think that there is any possibility of finding something worth appreciating in the music of India. While a good deal of training would probably be required before one could appreciate all the niceties of the classical style, it should not be difficult for any westerner to appreciate heartily the beautiful songs and molodies of good Indian musicians. We would also urge that Indian musicians should make a point of studying the principles and bistory of western music. The experience of the west will be of immense

help to musical progress in India.

The deeper spirit of nationalism and religion shows itself in music as much, if not more than in other things, Music has a sacred purpose connected with the regeneration of the human heart, and plays an important part in almost all nur dnalings in the world. If, however, Indian music is to advance and to become the vehicle for the expression of the highest ideals and feelings of modern India, it needs men like Bach and Beethoven, th lead it forward and to organize it, and to give of their best to its study and application. When people are too occupied with the sciences and arts which lead to worldly prosperity, devotion to the cultural arts finds no place. Maharaja Tagnre. at a lecture in Calcutta, asked those whn would do something for Indian music to givn more attention to the grammar of music, to the proper theory of raga and tala, and not simply to churn out of their minds anything which appeared tn them to be music, in accordance with notinns derived from street singers or frnm traditinn. The science and practice of Indian music, if it is to advance, needs a great deal of original research, as well as very thorough education. Such research and cultivation of Indian music means the giving up of time and energy nnw spent nn money-making tn musical culture. It needs also the daring which, while based on a thornugh knowledge of the science as it exists to-day, refuses to be handicapped by traditions which belong

to yesterday.

There are various practical ways in which enthusiasts can help in the progress and development of Indian music. The first thing to do is to study and practice it for oneself. There are hooks to-day, both in English and the vernaculars, which will help in this. Then it is good to make a habit of training the children in Indian music, and to see that they can play at least one Indian instrument. Every cultured family in the west aims at this, and in the large towns of India at any rate it is becoming quite possible to-day.

It is possible also to render aid to the different musical societies which are growing up. Princes and wealthy men can liberally help the All-India Music Conference and the Academy of Indian Music now established in Delhi with its

ambitious programme.

We can also help in a great extension of musical knowledge among the people generally. There was in the last half of the nineteenth century a great growth of musical knowledge in England, largely through voluntary associations, which grew up all over the country. The different musical festivals which were organized also contributed much to this; and there seems no reason why, in association with some of the annual festivals of India, there should not be organized musical festivals, which would attract artists and choirs from all over the country.

The ancient Greeks are said to have made a point of teaching their children music, because they believed that it made them more unselfish, and helped them to see better the beauty of order and the usefulness of rule. Lord Lamington, Governor of Bombay, at the opening of the

Gandharva Mahāvidyālaya, said:

'Music has in the past played a part in the education of the people of India. I believe that it may do much more in the futore if it is made an object of reverential study, and thrown open to far greater numbers than at present, and if it is allowed to take its proper place as an elevating influence.'

In music, as in all other things in India, co-operation and real comradeship between East and West is needed,

if the greatest possible progress is to be made. The words of Lord Ronaldshay, Governor of Bengal, apply to culture as well as to government in India. 'The future of the land we live in may be likeced to a spleodid edifice built up on a firm foundation of pillared arches. The pillars are the two great races, whose lot has been so strangely intertwined by the fingers of Provideoce—the Indiaes and the British. The keystones of the arches are the will on the part of both races to understand and co-operate with one another in this task.'

The moraing will surely come, the darkness will vanish, and thy voice poar down in golden streams breaking through the sky.

Then thy words will take wing ie sougs from every one of my birds' nests, and thy melodies will break forth in flowers in all my forest groves.

RABINDRANATH TAGORE.

APPENDIX I

BIBLIOGRAPHY OF INDIAN MUSIC

(Works in English only)

1. Universal History of Music, by Rajah S.M. Tagore, Mus. Doc., Calcutta.

An interesting compendium of musical knowledge with a valuable chapter on the Music of India. (Out of print.)

2. Hindu Music, compiled by Rajah S. M. Tagore. By various authors. Calcutta, 1875. Bābu Punchapan Mukerji, pp. viii. 308.

A collection of essays by well-known Oriental scholars on different aspects of Iodian music. (Out of print.)

3. The Six Principal Ragas, by Rajah S. M. Tagore, Calcutta, 1877. Calcutta Central Press Co., Ltd., pp. 46 xii.

Gives a general introduction to Indian musical theory, with detailed descriptions of the six ragas. With six fine plates representing the raga pictures. (Out of print.)

4. The Music and Musical Instruments of Southern India and the Deccan, by Captain C. R. Day, London, 1891, pp. xvi. 173. 17 coloured plates.

A good general introduction to southern music, with detailed: descriptions of musical iostruments and some fine coloured plates. Very valuable book. (Quantify music)

5. Oriental Music in Staff Notation, by A. H. Chinnaswamy Mudaliar, Madras, 1892, pp. 36, 106. Obtainable for Rs. 9 a copy from Miss Miriam Raju, San Thomé, Madras.

It deals entirely with Carnatic music. The Introduction is elementary, giving information concerning the principles of South Indian music. The longer part of the book is taken on with examples from the great masters of the south written in staff notation, and also a few folk songs. Indian Music, by Bhavānrāo A. Pingle, of Kathiawād, Byculla, 1898, pp. xviii. 341. Second edition.

A good account of the music of North India with a few examples. A mine of information on many details of performance.

(Out of print.)

7. A Short Account of the Hindu System of Music, by A. C. Wilson (Lady), Lahore, 1904, pp. 48. Gulab Singh & Sons, Lahore.

An elementary account of Hindusthani music. Has a good glossary.

8. Indian Music, by Ananda Coomataswamy, 1917, G. Schirmer, New York and Loodon. Reprinted from the Musical Quarterly, April 1917, pp. 9.

9. Indian Music, by Shahinda (Begum Fyzee-Rahamin) with preface by F. Gilbert Webb, 1914. William

Marchant & Co., London, pp. 96.

A general account of Hindusthani mosic, with descriptions of a number of Hindusthani ragas and with a number of raga pictures.

10. Notes on the Principles of Hindu Music, by E. Stradiot. With a collection of nine Hindu melodies. From the Madras Journal of Literature and Science for 1887-88, pp. 28.

A very slight account of southern music.

11. Indian Music, by A. K. Coomaraswamy, an essay in the Dance of Siva, by the same author, pp. 72-81, 5 plates.

An interesting description.

12. Art Manufacture in India, by T. N. Mukharji, F.L.S., Indian Museum, Calcutta. Specially compiled for Glasgow International Exhibition, 1888, Calcutta, 1888. Superintendent of Government Printing, pp. 451. Musical Instruments of India, pp. 76-96.

13. First Steps in Hindu Music, by H. P. Krishna

Rao, Mysore, 1906. Weekes & Co., London, pp. 52.

A very elementary work with a small collection of South Indian melodies in staff notation.

14. Essays on National Idealism, by A. K. Coomaraswamy, Colombo, 1909.

About twenty pages on Indian Music.

15. Some Thoughts on Hindi Musio, by G. S. Khare, Poona, 1912. Arya Bhushan Press, Poona, pp. 16.

A paper read before the Literary and Philosophical Club, Poons. A slight discussion on the Srutis.

16. The Hindu Musical Scale, by K. B. Deval, Poona, 1910. Arya Bhushan Press, Poona, pp. viii. 49. With an introduction by Mr. E. Clements.

Deals only with the theory of the twenty-two Stutis.

17. Theory and Practice of Hindu Music, by C. Gangadhar, Madras, pp. 40. Methodist Publishing House, Madras. Obtainable at C. Ramachandar, 25 Perumal Koil Garden Street, Georgetown, Madras.

A very elementary and seperficial account of Carnatic music. Specially meant for instruction in playing the vina.

18. Introduction to the Study of Indian Music, by E. Clements, London, 1913. Longmans, Green & Co., pp. xv. 104.

A technical discussion of the Gramss and Srutis. With a glossary, Contains translations from Natya Sastra and Sangit-Ratnakara.

19. Some Indian Conceptions of Music, by Mrs. Maud Mann. 1911-12, pp. 41. Proceedings of the Musical Association.

Cives an account of the Carnatic system.

20. The Indian Music Journal, Editor, H. P. Krishoa Rao, Mysore. Bi-monthly. Two volumes only, 1912-13. Crown Press, Mysore.

Contains much valuable and interesting information and a translation of portions of the Ragavibedha.

21. Contribution to the Study of Ancient Hindu Music, by Rao Sahlb P. R. Bhandarkar, Indore, 1912. British Indian Press, Mazgaon, Bombay. Reprinted from the Indian Antiquary, Vol. xli. July, August and November 1912.

A discussion oo the srutis. Also contains the Kudumiyamamalai inscription oo Indian music, probably of the seventh century.

22. The Music of Hindostan, by A. H. Fox Strangways. Clarendon Press, Oxford, 1914, pp. 364.

Deals primarily with Hindusthonl music, but also contains much valuable information on Carnatle music. The only thoroughly scientific treatise on the sobject by an expert in western music and a keep student of Indian music, who had splendid opportunities of hearing and atudylog the best Indian music. Contoins a good glossary and index.

23. The Hindu Scale, by A. H. Fox Strangways in Sammelbande dero Internationalen in Musik-Gesellschaft, 1907-08, pp. 449-516, Bräitkopf & Hartel, Leipzig.

Treats of the enderlying principles of Indian melodies and the connection between Greek and Indian music.

24. The Psychology of Music, by H. P. Krishna Rao, Mysore, 1916. Wesleyan Mission Press, Mysore, pp. 71, Re. 1-4-0.

An interesting description of the emotions associated with musical notes and melodies.

25. Theory of Indian Music as expounded by Somanatha, by K. B. Deval, Poona, 1916. Arya Bhushan Press, Poona, pp. 64.

An introduction to the musical scale of India and an explanation, according in the author's view, of many verses from the Rāgavibodha. His explanation is not accepted by other scholars and musicians.

26. Report of First Indian Musical Conference. Held at Baroda in 1916. Published at Baroda, 1917. Baroda Printing Works. pp. 63.

Contains su mmaries of papers and discussions.

27. Indian Music, by Mrs. R. M. Dunkelberger, Rentichintala. Article in Gospel Witness, Guntur. February 1917.

A general account of Indian music.

28. Guide to the Musical Instruments in the Indian Museum, Calcutta, by Dr. A. M. Meerwarth, 1917. Government Printing, Calcutta, pp. 33. As. 8.

An account of the very fine collection of Indian musical instenmunts io the Indian Museum, Calcutta, with pictures of many of

them.

Hindu Music by C. Tirumalayya Najdu, M. R. A. S., Madras, 1896, pp. 37. Vijavanti Press, Madras,

An English introduction under this title in a book by the above

author ontitled, Gana Vidya Sanjivini.

30. A Short Historical Survey of the Music of Upper India, by N. V. Bhatkhande, B.A., B.L., Bombay, 1917. Published by Karkhoro Maneckji Minocher-Honii of Bombay, Samachar, pp. 52. Reprint of a paper read at the All India Music Conference at Baroda, 1916.

A very interesting account of the development of Hiodustbaoi Music, containing rusults of original research, and a discussion on the hest lion of advence in Indian musical theory. A very valuable work by a scholar and a practical musician, with suggestions for

a new classification of Hindusthani ragas.

31. Karunānamrita Sāgaram, by Rao Sahib Abraham Pandither, Tanjore, 1918, pp. Lawley Electric Printing Press, Tanjore.

A technical and abstruce account of the development of Sooth Indiae Ragas, with special reference to the author's peculiar theory and to ancient Tamil works.

32. Indian Music. Young Men of India, May 1918, Calcutta.

Contains a number of articles on Indian Music, including one by Mr. Fox Strangways, and onn by Professor Percy Brown on 'Visualised Music.

33. Travancore Music and Musicians, by T. Lakshmana Pillay, Trivandrum, 1918. Included in collection of essays published by the author. pp. 93-133.

A historical essay of some interest.

34. Report of the Second All-India Music Conference. Held at Delhi, December 1918. By the Honorary Secrotary 1919. pp. 60 with four appendices and many photos.

A very valuable account of the proceedings and good summarins

of the papers.

APPENDIX II

GLOSSARY OF INDIAN MUSICAL TERMS

The numbers are those of the pages

The term continers or northern placed after a meaning indicates that the word is used in that sense only in the south or north respectively.

Abhanga		Marathi dovotional song, 92,
Abhog		Closing section of a Hindusthani song, 87.
Adhvadarsak		Name given to Ma, 63,
Aditāla		Three-beat time, southern, 75, 76.
Akshara		Syllable unit of time-measure, 73,
Akshiptika		Third section of Alaphana, 86.
Alankāra		Graces and ornaments of melody,
Aldohana, Aldo		Improvised introduction to a melody, 86.
Algosa		A flute, 117.
Amrita		A musical instrument, 100.
Amsa		Promioent note of a raga. Also called Vadi,
# 771344 III	•••	39.
Ananda lahari	411	An ancient bow instrument, 115.
Andelitam	***	A gamaka, the swing, 85.
Anga	•••	The totrachord. A member of a time beat, 6, 74.
Antard		Second section of northern melody, 87.
Antara	***	Sharp of Ga, southern, 13.
Anudšita		A member of the Saman chant, a falling
		tone, 27.
Anudruta		Smallest time measure. One akshara, 73.
Anumandaram	***	Fourth string of vinā, 104.
Anupallavi		Second section of a Carnatic melody, 87.
Anuvādī		Imperiect consonence, 26.
Absaras		Heavenly dancers, 7,
Arramin		Svaramandala, dulcimer, 114.
Arga		An ancient Sanskrit metre,
Arohana	***	Complete ascent of the gamut, 85.
As		A slide, northern, 84.
Antdl	***	Pirst section of Hindusthani melody, 87.
Ata tāla		Four-beat time, southern, 75.
A ta-chautala		Crooked four-beat time, northern, 76.
Atikomal		Double flat, 4.
Atikrama		Disjunct motion, thirds, fourths and fifths in
		Siman chant.
Atisvárya		Sixth note of Saman scale, 27, 30.
Atitivra		Donblo sharp, 4.
Avarohana	***	Complete descent of gamut, 85.
Avarta		Complete section of time-measure, 6, 74.
		,

Bāhya	***	•••	Small drum, 121.
Balasaras	vatī	•••	Southern form of tambür, 111.
Bansurl			A flute, 116.
Bastran			Burmese melodion, 124.
Basuli	• • •		Nepāli flute, 117.
Baul			Bengali folk mosic, 92.
Bhajana			A form of musical entertalomeot. A baod, 91.
Bhajana 1	truti		Drooe instrument, 118.
Bharl		•••	Nagāra drum, 12t.
Bilampet			Slow speed, adagio, northern, 78.
Blu			Northern name of vina, 102.
Bol	•••		Drum-stroke syllables, 81.
Bolihara	•••		A musical passage in arpeggio, 85.
Brahmd-v		•••	Variety of tambar, 111.
Budbudak			Small drum like linur-glass, 122.
	-	***	
Chakra	***	***	Circular wooden castanets, 122.
Chāpu		***	A syncopsted time-measure, 77.
Charanan	2	•••	Third section of southern melody, 87.
Chārtāla	•••	•••	Four-best time, northern, 81.
Chatuhsru	réi	•••	Name given to first sharp cote of Ri and Dha in south, 3.
Chaturailg	ia .		A form of melodic composition, 90.
Chaturtha		• • •	Fourth note of Saman scalu, 27, 30.
Chatusra		•••	A Jatf io time-measure, 75.
Chautala	•••	•••	Same as Chartala, 81, 88.
Chikara			A musical instrument like Sarangi, 100, 109.
Chikari	•••	***	Side strings of vina and similar instruments,
	•••	•••	104.
Chintle	•••		Curious iron cymbals of Ceotral Iodia, 123.
Chittika	•••		Castacets, 123.
Chyuta	•••		Ancient namo for certain árutle, literally
On Jane	•••		'fallen.'
			EMERCE:
Dādrā	•••	•••	A Hindusthani melody, 90.
Dāk			A syncopaled time, northern, 76.
	•••	•••	A large dhoi, a drum, 122.
Damphu	•••	•••	Tambourine, 123.
Damaru		•••	A smell drum, 122,
Dhamar	•••	•••	A four-beat time, northern, 76, 89.
Dhaivata	•••	• • •	Sixth note uf the octave, 3, 33.
Dhenka	***	•••	Form of Kinnori, 112,
Dhīma	• • •	•••	A four-best time, northero, 76, 88.
Dhol	• • •		*A drum, 122.
Dholak	• • •		A drum, 122.
	• • •		A small dhol, 122.
Dhrupad	•••		A northern form of song, 87.
Dhruva	•••		Four-beat time, southern, 75.
Dhun	• • •	•••	A northern popular song, 89.
Dilruba	• • •	•••	A stringed instrument, 107.
Dindimi	•••	•••	Tambourice, 123.

Dipachandi Dritakāla Drone Druta Dudi Düņ Durt Dundubhi	•••	A four-beat time-measure, corthorn, 89. Quick speed, aliegro, 78. A reed instrument, 118. A time beat of two aksharas, 73. A kied of drum, 122. A very quick speed, Allegrette, 78. A meledy ic the same, northern, Allegro time, northern, 78. Ancient came for the nagara drum, 8, 28
Dvitiya Edaka Ekatēla Esrēj	•••	Second cete of Saman scale, 27, 30. Small metal drum, 122. A single heat time-measure, 75, 76. Stringed lextrement, Bengal, 109.
Paredast Pillagort	***	Four-beat time-measure, nerthern, 76. A flute, 116.
Gabgūki Gamaka Gān lhīra Gāndhāra grām Gāndhāri Gandharva Gāndharva ved Ghasīt Ghasal Gita Govinda Gepichand Graha Grāma Grīma Guru	•••	Primitive bow instrument, 115. Graces and ernaments, 83, 130. Third cete of the octave, 3, 33. Ac ancient scale starting on Ga, 34, 35. Ac acciect raga. Class of heaveely musicians. Science of music. The slide, 54. Form of northern meledy, 90. An old song ce Krishna, 14. Primitive hamboo instrument, 115. The proper starting note for a raga, 39. An ancient scale, 2, 33. A time beat of eight aksharas, 73.
Humpitam Harikathā Hors	•••	A gamaka. Appegiatura, 84. Religioes musical entertalement, 91. Soeg of Holl festival, corthern, 89.
]li	• • •	Ancient Tamil name for Pa, 32.
Jalatarang Jālrā Janaka rāga Janya rāga Jharīgha Jāru	•••	A mesical festrument of cups, 119. Small haed cymbals, 123. Original raga, 18. Derivative raga, 18. Large cymbals, 123. A slide, 84.
jāti	•••	Ancient name for raga, 2, 10, 42. A class of time-measures, 75.
Javādi Jhamþa	•••	A Kanarese song, 92. A three-beat time, southern, 75. A feur-heat time, certhere, 76.
Jhārā Jinjīvi	•••	Rapid arpeggio, 85- Snake charmer's pipe, 118.
Toru	•••	Mediem speed, corthern, 78.

```
Kaikkilai ...
                           Ancient Tamil name of Ga. 32.
  Kaisiki
                          A sharp of Ni, southern, 3, 5.
             ...
                      ...
                          Hand cymbals, 71, 123.
  Kaitāla
             ...
                      ...
  Kākali
                           Highest sharp of Ni, southern, 3, 5.
             ...
                      ...
  Kākabāda ...
                           Timo-beat of sixteeo eksharas, 73.
  Kala
                          Mosical speed, 78.
 Kalai
                          A mlaute division of the akshara, 77,
 Kalahay
                          A horn, 116.
                      . . .
 Kälakslieba
                          Musical and religious performance, 91.
                      ...
 Kampitam-Kampa ...
                          The tremele, 84.
 Karadivädya
                          Large form of hour-glass drum, 123.
                      . . .
 Karadsamila
                          Large drum, 122.
                      ...
 Karana
                          Trumpet, 119.
                      ...
 Karkhā
                          Rajput war soeg, 92.
            ...
                      - - -
 Karidl
                          Castannts, 71, 124.
                      . . .
 Kā-sharati
                          A flute, 117.
                      ...
 Kasiarang
                          Musical instrument of cups, 119.
                     ...
                          A vina with 100 strings, 99, 113.
 Kāiyāyana vīņā
                     ...
 Kavadi sindhu
                          Southern folk song, 92.
                      . . .
 Kavali
                          Tiotal. Bengal, 76.
                     ...
 Khāli
                          Silent beat of northern time-measure, 76.
                     ...
 Khanda
                     ...
                          Jatl of time-measure, southern, 75.
            ...
 Khañjeri
                          Form of tambouriee, 123.
                     ---
 Khattalä
                         Castanets, 124.
                     ...
 Khy \bar{a}t
                          Northern form of song, 87, 89.
Kinnara
                          Class of heavenly musiciaos, 7.
                     ...
Kinnari
                          Primitivo stringed iestromest, 100, 111, 115.
                     ...
Kirtan
                          Form of musical performance, northero, 91.
                     ...
Kirtana
                         A southern form of melody, 22, 87,
            + • •
                     •••
Komal
                          A fat, 4.
            ...
                     . . .
Kombu
                          Horn, 116.
            ...
                     ...
Konsiki
                          Horn, 116.
            ...
                     ...
Kottuvā dyam
                          Kind of Tambür, southern, 111.
                     ...
Kriti
                         A southern form of melody, 22, 87.
            ...
                     ...
Krushta
                         Highest note of Saman scale, 27, 30.
                     ...
Kuma
                         A sacred trampet, 118.
            ...
                     ...
Kural
                         Applient Tamil came for Sa. 32.
Kural (Kushal)
                         Paopipe, southern, 119.
                     ...
Kustar
                         Castanets, 124.
                     ...
Laghu
                         A time-length of four aksharas, 73.
                    ...
Linam
                         A slide, 85.
           ...
                    . ..
                         Medium speed, moderato, 78.
Madhya
                           Middle voice register, 4.
Madhyama
                         Pourth note of the octave, 3, 33.
                           Name of an ancient grama, 34.
Mahanagara
                         A very largo nagăra drum, 121.
Mandaran
                         Second string of vina, 104.
                    ...
```

Mandra	The lower voice register, 4.
	Pilth note of the Samao scale, 27, 30.
Mandragati	Lower tetrachord of octave.
Mañjiva	Cymbals, 123.
Marsiya	Hindusthani soogs for the Muharram, 90.
Matra	Unit of time-measure, 12, 71.
Mardala	Mridanga, southern name, 120.
Mathya	Three-beat time-measure, southern, 75.
Mayhri	A peacock dilruba, 114.
Melakarta	A primary raga, southern, 19, 42.
Mind	The shake, 84.
Mirtay	Principal time-beat of Avarta, southern, 76,
Misra	The seven-member jati of time-measure,
	southern, 75.
Mridanga	A concert drum, southern, 9, 78, 120.
Murali	A flute, 28, 101, 116.
Marchhand	Ancient name for modes, 40.
75 144 8 (4 (4)444	Melody-form for raga, southern, 85.
	A grace note, northern, 85.
Mly	A D
1111y	A flute, 117.
Nafari	Small trumpet, 119.
27 F	f talle dans 101
Nagara Nagarkirtan	A minimal and estimican made
Nagasara	A = = = = + 117
27 1 1 1 1	
** * * * * * *	A large nagăra, 121.
Natiatarang	Same as nagāra, 121.
27 . 27	A pipe instrument, 118.
Nandin	Primitive bamboo instrument, 115.
Ndţaka	Dramatic performance, 92.
Ndtya	Music and dancing, 12,
Nicha	Lower voice register in Saman chant, 28,
Nidhana	Final section of Saman chant.
Nidukku	Small drum, 122.
Ninairna	Small nigasara, 117.
Nishadha	Seventh note of octave, 3, 30, 33,
Nondi Sindhu	Southern folk tong, 92.
Nosbug	Drone Instrument, 118.
Nyāsa	Proper final note for raga, 39.
Odana	Pentalonia star 46
Odava	Pentatonic raga, 46.
Omin	The shake, 84.
Ovis	Marātha song, 92.
Pakhawaj	Large meidengs porthern 121
	Large mridanga northero, 121.
Pākkā-sāranī Pālai	Side strings of viņā, 104.
D-H	Ancient Dravidian modo, 12, 34.
Panavi	First section of southern melody. Chorus

		A 1 A
Pan	***	Ancient Tamil melody, 12.
Pañohama	• • •	Fifth note of octave, 3, 30, 33.
		Second string of vina, 104.
Panohamā		A raga, 54, 56, 69.
Paran	•••	Drum-like stroke on a stringed instrument, 85.
Parand		Particular kind of drum-beat.
Paţ		A Gamaka, staccato, 85.
Penna		Primitive two-stringed instrument, 112.
Plnaka		Primitive single stringed instrument, 100.
Pluta		Time-measure of tweive aksharas, 73.
Pongi		The drone instrument, 118.
Povada		Marathi war song, 92.
Prabhandha		Ancient name of musical composition, 14, 87.
D		Drong cote of Saman chant.
	•••	
Prastāva	•••	Introductory portion of Samon chant.
Prathama	•••	First note of Saman scale, 27, 30.
Pratihāra	•••	Second section of Saman chant.
Pratimadhyama		Sharpened Ma, southern, 35.
Punji		Snako charmer'a instrument, 101, 118.
Putra	•••	Secondary raga, northern, 41.
Parvänga		First tetrachord of octave, 63.
Qantin	•••	Same as svaramandaia. Persian, 99, 114.
Rouna III	•••	Districted designation of the state of the s
W . L . L		A stelegad instrument 100 110 113
Rabab	•••	A strioged instrument, 100, 112, 113.
Rabandstra		Ancient musical instrument of Ravann, 100,
Rāga		A melody-type, 2, 10, 39.
Rag Alah		First section of Alaphana, northern, 86.
Ragini		Secondary raga, northern, 41.
Ragmālā		Samo as rāgamālikā, 91.
Ragamālikā		Mosical composition of many ragas, 91.
Rishabha		Second note of octave, 3, 30, 33,
4		Two-beat time measure, southern, 75.
Rilpaka		Three-beat time measure, northern, 76.
notes . Tire		
Rupaka Alap	•••	Second section of Alaphana, northern, 86.
		November 1 to be an of the country of the
Sādhāraņa	***	Name of first sharp of Ga, southern, 3, 5.
Sādras	•••	A Hindusthani melody, 89.
Sam		Principal beat of a time section, northern, 76.
Saman		Chants of ancient Samn Veda, 27.
Samptirna	• • •	Raga containing all the notes of the octave
According to Con-		in both ascent and descent, 42.
Samuādī	•••	Perfect consocance, 25, 26.
Samvāditva		Theory of consonance, 26.
	• • •	
Sandi	•••	A trampet, 119.
Sañchari	•••	Third section of northern molody, 87.
0. 11-11 -1 17 4		Ascent and desceot of octavo, 39.
Sandhiprakās	***	Morning and evening twilight. Name given
		to ragas to be sung nt that time, 63.

Tāla

...

. ..

Variations of theme, 22, 88. Sangati Sankhu Cooch shell, 99, 116. Seven-member jati of time-measure, Sankirna southern, 75. Musical performance, 93. Sankirtan The seven notes of the gamet, 30. Saptaka First string of vina, 104. Săraul A stringed instrument, Indian violin, 100, 103. Särangi ••• ... Goddess of music and arts, 7. Sarasvati Name of particular kind of vina. A soog in sol-fa syllables, 90. Sargam . . . A varioty of Sarangi, 109. Sarinda A form of Sarangt, 100, 109. Saroda Kind of Sarangi, 109. Sarrawat ... Samo as sitar. Satar 200 A vina with 100 strings, 99, 113. Sata-tantri-vitia Hexatonic raga, 46. Shādava ... ---First coto of the octave, 3, 30, 33. Shadja ••• ... The name of an acclent grama, 34. Sextuplo time, 73. Shatkala ... Name given to sharps of Ri and Dha. Shatéruti southern, 3, 5. Simhanandana An lotricate southern time-measure, 77. Southern folk melody, 92. Sindhu .41 A stringed lostrument, 15, 105 sq. Sitär The shake, 84. Shuritan ... Sringa Horn, 116. ... Sruti Reharmonic Interval or note, 2, 5, 18, 26, 29, Sruti Upanga Drono instrument, 118. ... A voice register. Sthayt Natural diatonic scale and notes, 2, 36, Suddha ... Sukth Samo as Jāru, slide, 84. Salaphākatā A three-beat time measure, northorn, 76. ... Sundari ... Tho sitar, 107. ... Suntha Same as Jāru, slide, 84. Surbahar ... A stringed instrument, Bengal, 108, ... Surnāi The nagasara, northern. ... A three-beat timo measuro, northern, 76. Surphākatā ... Sur-spingara A stringed instrument, 113. ... Sursota A variety of tambilr, 111. . . . Svara Diatonic loterval or note, 2, 30, 32. ... Svaramālikā Portion of song in sol-fa syliables, 90. . .. Svaramandala A stringed instrument like dulcimer, 113. ... Svarasāhityā A portion of song in sol-fa syllables, 90. ... Svaravarta A portion of song lo soi-fa syllables, 90. ... Svarita A falling accept in Saman chapt, 27, 30. . . . Tabla Pair of small drums, 78, 120. ...

Time-measure, 2, 72.

Tambür	• • • •	***	A stringed iostrument, 100, 110.
Tappa		• • •	A Hindosthant melody, 20, 89.
Tāra	***	•••	Higher voice register, 4.
Täram			Ancient Tomil come for Ni, 32.
Tarana	***	***	Form of acog, 99.
Tatilri	•••	•••	Trumpet, 119.
Taush		•••	Peacock Dilruha, 114.
Tenmān	gu	***	Southero folk melody, 92.
Thamba		***	Tamboarine, 123.
Thanton	ıa	***	Primitive bamboo instrument, 115.
Thä	***	***	Meiody-type, aerthern, 40.
Theka	***	***	Drum phroses.
Thonk	•••		A gamaka, staccato, 85.
Thumri			Hindusthani lovo song, 89.
Tilläna	***		Form of song, 90.
Tintal	•••		Same as Titāla, 76.
Titāla	***	• • •	Three-beat time, northern, 76.
Tivra			A sharpened note, 4.
Tivratan	ta		Slight farther sharpening of Tivralara, 4.
Tivratar.	a		A double shorp, 4.
Tombi	•••	***	Snake charmer's instromont, 118.
Tomtom			A drum, 123,
Triputa		•••	Three-heat time, soothern, 75.
Trisra	•••	•••	Three-akshara Jati of southero time-measure,
			75.
Trital	•••	•••	Same as Titāla, 76.
Tritiya		•••	Third oote of Saman scale, 27, 30.
Trivata	•••		A form of moog, 90.
Turahi	•••		A trumpet, 119.
Tuttam			Ancient Tamil oame for R1, 32.
Tsaung	***	***	Primitive hamboo instroment, 115.
Uelicha	•••		Higher notes of Saman chant, 28.
Udătta	***		Raised tone of Samao, 27.
Udgitha	***		Second section of Saman chant.
Udukkte	•••		Honr-glass drum, 122.
Udupa	***	•••	Goblet shaped drum, 123.
Uļai	•••	•••	Ancicot Tamii namo for Ma, 32.
Upailrava			Fourth section of Saman chant.
Uttara ra		•••	Rāga with amsa in Uttarānga, 63.
Uttarang		•••	Higher tetrachord of octove, 63.
Vādī	•••	•••	Priocipal note of a raga, améa, 25, 26.
Vansa		•••	A flote, 116.
Varek	•••		Shake. A Gamaka, 84.
Varja	•••	•••	Omitted notes in a raga.
Varna	•••	•••	Variations of a melody, 88.
Vibraga	1 09	***	A bar in time-measure, 6, 74.
Vikrit			One of the srutis-chromatic variation of
4		•••	diatonic note, 2.

150 THE MUSIC OF INDIA

Vilamba Slow speed, adagio, southern, 78. Vilari Ancient Tamil name for Dha, 32,

Vinguah Ancient one-stringed instrument of Ceylon,

View A stringed instrument, 7, 8, 10, 11, 18, 28, ... 101 sq.

Virama Rest in time-measure, 74. Visaragiti ... Ancient style of singing, 89, ...

Vivadi A dissocant note, 26.

Yal (Yazh) Ancient Tamil instument, 11. Yektar A one-stringed instrument, 112. . . .

Zamzamma ... Very rupid arpeggio, 84.

APPENDIX III

EXAMPLES OF INDIAN MUSIC

The following points should be noted in regard to the notation below:

A superscript small letter indicates an Appogiatura note; as mG. D.C. Indicates a repeat from the beginning.

Pine iodicates that after thorepeat the molody ands at that Place, a means that a phrasu is repeated beginning at the place marked thus.

In regard to time-signature, the Avaria is shown by two upright strokes, thus [

The bar is shown by one stroke, thus |

The beats in the bar, by short strokes are shown thus !

The divisions of the beat are shown by two dots, thus:

For explanation of other signs see Introduction.

In some of the melodies the raga outline, or chhāyā as it is called, is given with a time-bar.

I SAMAN CHANTS

Sung by Sundara Ragavachar, Triplicane, Madras.

No. 1. Invocation to Indra.



A . . bbi tv2 śn-ra-no nu-mo. . dagdh4

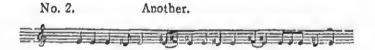


i-va de-na-va- ha I - · śā na-mas- ya



C--64-- nam In---dra tas-thu-sha-ba-----











II THE LYRE OF THE UNIVERSE

From Sir Rabiadranath Tagore (with Bengalt words)

Mixed raga

Chapu and Eka tala

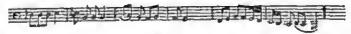
Astal



||G:-:G:G:-|MG:R:S:-:-|G:G:M:P:-|D:e:D:n:-|nD:P:M:P:-|P:D:n:S:-| ||Bif-wabf-parado --biswajaa-mohichche------

Fino.

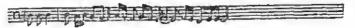
Antarā



||PN:N:N:S:-|NS:P:P:P:-|P:D:P:M:P:-|M:G:-:--|R:G:P:M:GR|SN:D:ND:P:-|| | Nitya jige saras san-git madhu - rimā, Nitya nrityaras bhangims.

Sanchari

Eka tāla



[PN:N:N:-:N:DN:P:P][DP:M:PM:G:-] -:MG:R:GG]
Ashare unba ananda atsab naba. Atigambhir



|-:MG:R:GG |-:-:-:GP|M:G:G:RR SN:S:-:- | Atigambhīr all ambaredamaru bājo,



 $\|\underline{N}_{!}S_{!}S_{!-}|_{-:-:-\underline{N}}S\|S_{!}R_{!}G_{!}G_{!}R_{!}S_{!-:-}\underline{N}S\|N_{!}N_{!}D_{!}NS_{!}SS_{!}S_{!}S_{!}-\|$

Jenare pralayankari sankari Kare garijan nirjharini saghane, nache,



|-:SS:S:R:S | [N:SN:D:ND]P:DP:M:PM]G:MG:R:G]RG:MP:MG:RR]R:-:St-||

Hera kshebdha bhayal bisal niral piyal tamal Uthe rala bbairab tane.

bitane.

#NN:NN:N:-N|N:N:DN:N||-:-:N:NN||DN:S:-:- ||

Paban mallärgita gähichche äedhär räte;

|R:-R:RS:-|N:-N:SS:- [*S:-S:SN:- |D:-0:ND:-|P:PD:P:-M|G:-:-- ||
Unmādinī sodāmloī rangabhare nyītya kare ambarta - le,



Dikedike katabāņī, eabanaba katabhāsha jbar jhar rasadhārā

N.B.—A final consenant in above is prenenneed as though it had a short a sound following it. Thes jhar jhar is pronounced jhara jhara.

Sir Rabindranath Tagore was good enough to allow me to take dowe this soog from his own singing, for which I am very grateful.

THE LYRE OF THE UNIVERSE

(TRANSLATION OF THE BENGALI)

With the music of the lyre of tho universe humanity is charmed. Whether on land or water or under the sky, in the forest or the glade, in the river and streams, in the mountain and cave and in the ocean, sweet music's charm is always awake. It is always dancing plnyfulness; in the rainy mouth there is new joy and festivals new; in the blue sky the drum of Siva is played as if the destructive goddess is dancing. The rivulets roar loudly and the groves of lonely mighty trees are awed nud frightened; sound rises with a terrible noise; the breeze sings the mallar raga on a dark night; mad lightnings dance with coyness under the heavens; on every side there are new words, new languages, rippling streams of water.

III PUNIĀBĪ TUNES

Asim \$

1. Psalm 24

Fine



[S:S:S:G::G|M:-:M:P:-;-S:-:n:D:-:P|M:-:M:G:-:R|S:S:S:G:-:G M:-:M:P:-]]
Rabb Khudāwand Bādshāh hai, oh jalāl dā Bādshāh hai, Rabb
Khudāwand Bādshāh hai

Antara



|Mi-M:N:-:N:N:-:NS:-:S'S:-:S:S:-:R S'-:miD:-:P
Uchche karo, sir, darwazo, nchche ho sab daro ;
D.C.



[N::N:S:-:R .S:-:m:D:P:D |S:-:m:D:-:P|M:-:-:G::R]
Iān jaļāt dā Bādshāh āwe, sir tad uchche karo.

N.B.—The Indian notation under the staff in the first line of this song cannot come directly under the corresponding notes in the staff on account of lack of space.

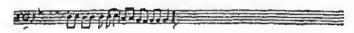
2. Psalm 86

Fins

PP:PP:PM:M'gg:RS:R-g:R] oS:SS:RR:R;RP:PP:M-g:R]

Ai Khudawand, apni rah apne .
bande nun wikha
Teri hi sachiai di, Karninga
main parawi

D.C.



fon:nn:nn:S;DD:PM:PP:Pf

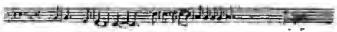
Merā dīl ik pāse kar Tān maiņ rakkhān terā dar

3. Psalm 111

8 Asta:

Fina

n.c.



P₁P:-:-G₁G₁R:S₁--::-S₁S:-R:S₁N₁D:P:P:P₁D:-:-Tu-sī gā-o sanā , gāo sanātusi Rabb dī

Antara p.c.

P.P:D:S:S|S:S-:R|R:R:S:-,N:::D:P,D:R:S:N|D:P:P:P|D:-:Sachcheän di toll wich dil näl gawän Sanä sunäwsn main Rabb di

IV HINDUSTHANI MELODIES.

(From Collection of Mr. N. V. Bhatkhande)

No. 1

Mālsarī rāga,

Sülphākatā tāla



The above is the raga and its characteristic phrase.







[P.P.S.S|S.S|S.R:S.S|S.S:P.P|G.G|G.n:P|S.S:P.P|P.G|P.G:S.S|

No. 2

Bilāval

Tintal



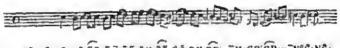
SRGMPBoNS

;S:G:P:M,G:R,G:R;

The above is the raga and its characteristic phrase.



1:-1-.S:GP|MG:RS|GP:n-N|S:NS:-.S:DP|MG:RS|GP:n-N|



||S:NS:-.S:NS|GR:CM|GR:SN|SG:RS:DN:DP||n=M:GR|GP:u=N||S:NS:-.

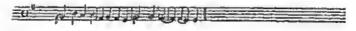
No. 3

Yamankalyanı raga

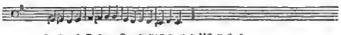
Tritala



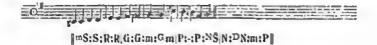
Astai



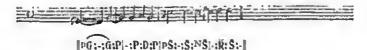
[mP:N:D:N]m:P:m:G[mP:-:P:Dm]-:mG:G:-|

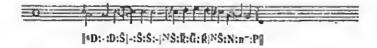


||mG:mG:R:G,m:Gm:P:P;G:R:G:R \S:R:S:|

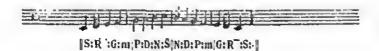


Antara









N.B. F# has been omitted by error from the stave in the above four lines.

V CARNATIC MELODIES.

Song of Tāyumānavar.
 With Tamit words and rough English alliterative translation.

Nādanāmakriyā rāga

Eka tāla



STMGMPdNSSNdPMGT8 (8:r:M:-

\$ Pina

||PidiS:- ||S:S:S:- ||S:S:Nid ||Pi-i---||| ||Unnai nā-duvan un-naru| tū-ve-|| ||Boldly Thee do I sock and thy boundless grace

D.C.



[G:M:d:- | P:M:GM:PM | GM:PM:GM:Gr | S:-:-:

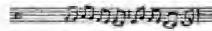
Tannal na-duvan tannan tan-ni-ya-nö -----
Holding Thee all-supreme, hungry I seek for thee.

2. An Old Melody.



||5:-R|GG|G.RG|P:-P|PP.PP|P.-P|DP:S|S|SS|S:-GR|SN|ND|

D.C.



PP:DPMGGRGP:MGRSRG

Ch. III.



#PP:PIRR|R|GPMG:G|GP|MG|GPMG:MGRS|RSRG|S|RS:ND|S|-||

D.C.



No. 3

From Oriental Music in Staff Notation.

Sindhurāmakriyā rāga

Deśādi tāla

4 2 2

no shippatisis or those

SGMPANSSNPAPMGS

IMP:MM[G[G]

Pallavi.



Fine

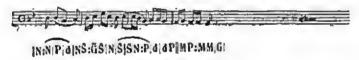


|N:N|P|a|NS:G|-|G|G:GM|P|M|MP:MM|G|G|S:G|-|M|Pa:Notn|P|a:P|-|M| MG:G|-|-|S:-|-|

Anupallavi.



D.C.



Charanam.



D.C.



THE MUSIC OF INDIA

No. 4 A Melody of Tyagaraja.

From Oriental Music in Staff Notation.

Madhyamāvatī rāga.

Rapaka tāla



Pallavi



|P:M|R:Sio:P|R:-|R:R:R:R:R|OS:RS;RM:RS:o:P|R:-|R:R:R:R:R|



[P:M/R: PM:RS:0P|R:-|R:R:R:S|RM:-R|MP:-M:Pn:P|P:-|-:-:-:-



P:M[R:PM:RS:oP]R:-:R:R:R:S}SR:NR;RM:PM:M:Po[PM:RM]Po:PM:R:R|R

3



P:M|R:PM:RS:nP|R:-|R:R:R:S|SRIMR|RM:PM:PB:SR|AR:Sn|Sn:PM:R:RI

Pine

D.C.



|P:M|R:PM:RS:0P|R:-|R:R:R:S|S:-0|R:-S:S:|S:-|-:-:-:-|

Anupallavi



|| K:K|K:K:-:K|S:KA||K:-S:S:-n|n:-|nS:K:Sn:P|n:-|S:-:-:-|

is the hours of the second

Charanam



 $[\![P:M]P:R:M:R]P:M[P:M:R:R]nn:P:nn:M:P:M]RM:P[M:P:P:P]R:R[R:-:R]$



No. 5

From Oriental Musle in Staff Notation.

Ānandabhairavī raga.

Trisra Eka tala

.



Pallavi

IP:PP:-P|P:Pa.a:PM|gazg:m.DP:PM|gg:RS:So|Sg:Mg:24gm|gm.P:Mg:RM|

Fine

自己是一种

|gR:gMg:-|mg.nd:PM.gR:St||Sg:Rg:MgM|gM:I':Mg:RM|gR:geS:-|

Anupallavi

of the second property of the terminal

|Sg:RS:-oloo:oS:SS|Sg:Rg:"gn|mD.P:Mg:"Mgn||P:PS:-S|aS.a:DP:PM|

D.C.



[gacg:M.DP:PM]gMg:RG:gM]

Charanans



IP:PP:-PIMP.DP:PD.Pn:PMIMg.g:M.DP:PMIMg.g:R.RS:Sp[Sg:Rg:MgM]



[gM.PD:PM.g:RM[gRig.gg:g5] Sg:RS:-n|n.Sn:nn.S:-S|Sg:Rg:~gM]

D.C.



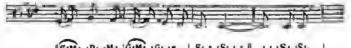
No. 6 SOUTHERN FOLK SONG

From Oriental Music in Staff Notation.

Ānandakalippu.

Chāpu tāla

Pine



|6:M:-:P:-:M:-|4:M:-:6:-:r | S:-:-:S:-:-:| -::-:S:-:S:-

D.C.



|MiM:=M:=M:=M:=M:=M:=M:=G:M:=G:=r:=|Sire=:G:=:-:-|





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